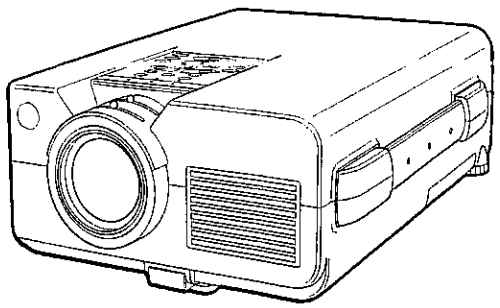
# SHARP SERVICE MANUAL SERVICE-ANLEITUNG

S01B4XG-C40XU



## LCD PROJECTOR
## LCD PROJEKTOR

## MODELS MODELLE XG-C40XU/XE

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

Im Interesse der Benutzersicherheit (erforderliche Sicherheitsregeln in einigen Ländern) muß das Gerät in seinen Originalzustand gebracht werden. Außerdem dürfen für die spezifizierten Bauteile nur identische Teile verwendet werden.

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SHARP CORPORATION

# Specifications

| | |
|---|---|
| Product type | LCD Projector |
| Model | XG-C40XU/XE |
| Video system | PAL/SECAM/NTSC 3.58/NTSC 4.43/DTV 480P/DTV 720P/DTV 1080I |
| Display method | LCD panel × 3, RGB optical shutter method |
| LCD panel | Panel size: 22.9 mm (0.9") (13.9 [H] × 18.5 [W] mm)<br>Display method: Translucent TN liquid crystal panel<br>Drive method: TFT (Thin Film Transistor) Active Matrix panel<br>No. of dots: 786,432 dots (1,024 [H] × 768 [V]) |
| Lens | 1–1.3 × zoom lens, F1.7–2.0, f = 33–43 mm |
| Projection lamp | DC 200 W lamp |
| Contrast ratio | 250:1 |
| Video input signal | RCA Connector: VIDEO, composite video, 1.0 Vp-p, sync negative, 75 Ω terminated<br>RCA Connector: AUDIO, 0.5 Vrms more than 22 kΩ (stereo) |
| S-video input signal | 4-pin Mini DIN connector<br>Y (luminance signal): 1.0 Vp-p, sync negative, 75 Ω terminated<br>C (chrominance signal): Burst 0.286 Vp-p, 75 Ω terminated |
| Horizontal resolution | 560 TV lines (video input), 750 TV lines (DTV 720P input, Dot by Dot) |
| Audio output | 3 W (monaural) |
| Computer RGB input signal | 15-PIN MINI D-SUB CONNECTOR (INPUT 1, 2):<br>RGB separate/composite sync/sync on green type analog input: 0–0.7 Vp-p, positive, 75 Ω terminated<br>STEREO MINIJACK: AUDIO, 0.5 Vrms, more than 22 kΩ (stereo)<br>HORIZONTAL SYNC. SIGNAL: TTL level (positive/negative) or composite sync (Apple only)<br>VERTICAL SYNC. SIGNAL: Same as above |
| Pixel clock | 12–230 MHz |
| Vertical frequency | 43–200 Hz |
| Horizontal frequency | 15–126 kHz |
| Computer control signal | 9-pin Mini DIN female connector (RS-232C Input Port) |
| Speaker system | 8 cm (3 3/32") round |
| Rated voltage | AC 100–240 V |
| Input current | 3.3 A |
| Rated frequency | 50/60 Hz |
| Power consumption | 300 W |
| Operating temperature | 41°F to + 104°F (+ 5°C to + 40°C) |
| Storage temperature | -4°F to + 140°F (– 20°C to + 60°C) |
| Cabinet | Plastic |
| I/R carrier frequency | 38 kHz |
| Laser pointer of remote control | Wave length: 650 nm / Max. output: 1 mW / Class II Laser Product |
| Dimensions (approx.) | 9 1/64" (W) × 4 48/64" (H) × 12 13/64" (D) (229 × 121 × 310 mm) (main body only)<br>9 19/32" (W) × 5 9/32" (H) × 14 7/64" (D) (243.5 × 134 × 358.4 mm) (including adjustment feet and projecting parts) |
| Weight (approx.) | 10.6 lbs. (4.8 kg) |
| Supplied accessories | Remote control, Two AA size batteries, Power cord (11' 10" 3.6m), Computer RGB cable (9' 10" 3 m), Computer audio cable (9' 10" 3 m), USB mouse control cable (3' 3" 1 m), DIN-D-sub RS-232C cable (6 45/64" 15 cm), Remote mouse receiver, Extra air filter, Lens cap (attached), CD-ROM, LCD projector operation manual, LCD projector quick references, Sharp Advanced Presentation Software operation manual |
| Replacement parts | Lamp unit (Lamp/cage module) (BQC-XGC40XU/1), Remote control (RRMCG1579CESA), (RRMCG1584CESA),AA size batteries, Power cord (QACCU5013CEZZ(XG-C40XU), QACCB5024CENA(XG-C40XE),QACCV4002CEZZ(XG-C40XE)), Computer RGB cable (QCNWG0002CEZZ), Computer audio cable (QCNW-4870CEZZ), USB mouse control cable (QCNWG0007CEPZ), DIN-D-sub RS-232C cable (QCNW-5288CEZZ), Remote mouse receiver (RUNTK0673CEZZ), Air filter (PFILD0076CEZZ), Lens cap (GCOVH1307CESB), CD-ROM (UDSKA0053CEN1),(UDSKA0057CEN1), LCD projector operation manual (TINS-7482CEZZ),(TINS-7533CEZZ), LCD projector quick references (TINS-7483CEZZ), (TINS-7534CEZZ, TINS-7535CEZZ, TINS-7536CEZZ), Sharp Advanced Presentation Software operation manual (TINS-7538CEZZ),(TINS-7537CEZZ) |

This SHARP projector uses LCD (Liquid Crystal Display) panels. These very sophisticated panels contain 786,432 pixels (× RGB) TFTs (Thin Film Transistors). As with any high technology electronic equipment such as large screen TVs, video systems and video cameras, there are certain acceptable tolerances that the equipment must conform to.

This unit has some inactive TFTs within acceptable tolerances which may result in illuminated or inactive dots on the picture screen. This will not affect the picture quality or the life expectancy of the unit.

*Specifications are subject to change without notice.*

# INPORTANT SERVICE SAFETY NOTES (for USA)

**■ Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and servicing guidelines as follows:**

## WARNING

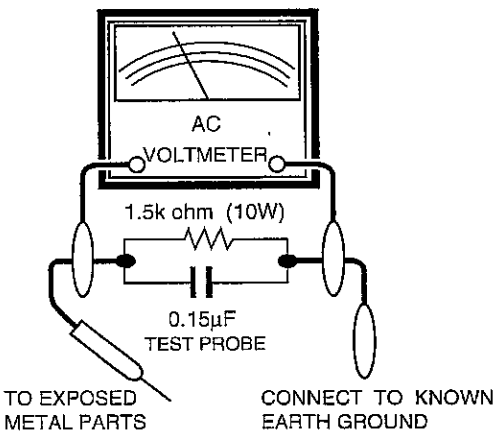
1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

## BEFORE RETURNING THE PROJECTOR: (Fire & Shock Hazard)

**Before returning the projector to the user, perform the following safety checks:**

1. Inspect lead wires are not pinched between the chassis and other metal parts of the projector.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for current leakage in the following manner:

- Plug the AC cord directly into a 120-volt AC outlet, (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in parallel between all exposed metal cabinet parts and earth ground.
- Use an AC voltmeter with sensitivity of 5000 ohm per volt., or higher, sensitivity to measure the AC voltage drop across the resistor (See Diagram).
- All checks must be repeated with the AC plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these checks.)
  Any reading of 0.3 volts RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.




## SAFETY NOTICE ,

Many electrical and mechanical parts in DLP Projector have special safety-related characteristics.
These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.
Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams. For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

**WARNING: The bimetallic component has the primary conductive side exposed. Be very careful in handling this component when the power is on.**

## AVIS POUR LA SECURITE

De nombreuses pièces, électriques et mécaniques, dans les projecteur à DLP présentent des caractéristiques spéciales relatives à la sécurité, qui ne sont souvent pas évidentes à vue.
Le degré de protection ne peut pas être nécessairement augmentée en utilisant des pièces de remplacement étalonnées pour haute tension, puissance, etc.
Les pièces de remplacement qui présentent ces caractéristiques sont identifiées dans ce manuel; les pièces électriques qui présentent ces particularités sont identifiées par la marque "⚠" et hachurées dans la liste des pièces de remplacement et les diagrammes schématiques. Pour assurer la protection, ces pièces doivent être identiques à celles utilisées dans le circuit d'origine. L'utilisation de pièces qui n'ont pas les mêmes caractéristiques que les pièces recommandées par l'usine, indiquées dans ce manuel, peut provoquer des électrocutions, incendies ou autres accidents.

**AVERTISSEMENT: La composante bimétallique dispose du conducteur primaire dénudé. Faire attention lors de la manipulation de cette composante sous tension.**

# NOTE TO SERVICE PERSONNEL

## UV-RADIATION PRECAUTION

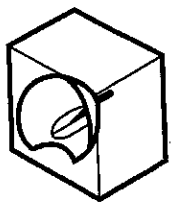
**The light source, metal halide lamp, in the LCD projector emits small amounts of UV-Radiation.**

**AVOID DIRECT EYE AND SKIN EXPOSURE.**

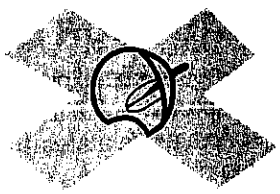
**To ensure safety please adhere to the following:**

1. Be sure to wear sun-glasses when servicing the projector with the lamp turned "on" and the top enclosure removed.

2. Do not operate the lamp outside of the lamp housing.



3. Do not operate for more than 2 hours with the enclosure removed.



## UV-Radiation and Medium Pressure Lamp Precautions

1. Be sure to disconnect the AC plug when replacing the lamp.
2. Allow one hour for the unit to cool down before servicing.
3. Replace only with same type lamp. Type CLMPF0075CE01 or BQC-XGC40XU/1 rated 85V/200W.
4. The lamp emits small amounts of UV-Radiation, avoid direct-eye contact.
5. The medium pressure lamp involves a risk of explosion. Be sure to follow installation instructions described below and handle the lamp with care.

# NOTE POUR LE PERSONNEL D'ENTRETIEN

## PRECAUTION POUR LES RADIATIONS UV

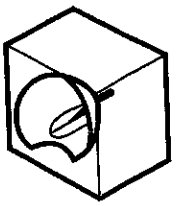
**La source de lumière, la lampe mètal halide , dans le projecteur LCD émet de petites quantités de radiation UV.**

**EVITEZ TOUTE EXPOSITION DIRECTE DES YEUX ET DE LA PEAU.**

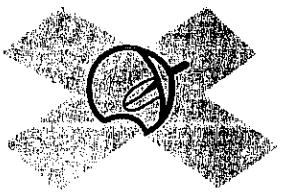
**Pour votre sécurité, nous vous prions de respecter les points suivants:**

1. Toujours porter des lunettes de soleil lors d'un entretien du projecteur avec la lampe allumée et le haut du coffret retiré.

2. Ne pas faire fonctionner la lampe à l'extérieur du boîtier de lampe.



3. Ne pas faire fonctionner plus de 2 heures avec le coffret retiré.



## Précautions pour les radiations UV et la lampe moyenne pression

1. Toujours débrancher la fiche AC lors du remplacement de la lampe.
2. Laisser l'unité refroidir pendant une heure avant de procéder à l'entretien.
3. Ne remplacer qu'avec une lampe du même type. Type CLMPF0075CE01 or BQC-XGC40XU/1, caractéristique 85V/200W.
4. La lampe émet de petites quantités de radiation UV- éviter tout contact direct avec les yeux.
5. La lampe moyenne pression implique un risque d'explosion. Toujours suivre les instructions d'installation décrites ci-dessous et manipuler la lampe avec soin.

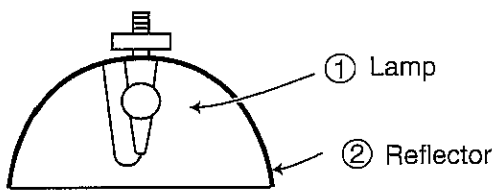
## UV-RADIATION PRECAUTION (Continued)

### ■ Lamp Replacement

**Note:**

Since the lamp reaches a very high temperature during units operation replacement of the lamp should be done at least one hour after the power has been turned off. (to allow the lamp to cool off.) Installing the new lamp, make sure not to touch the lamp (bulb) replace the lamp by holding its reflector ②.

[Use original replacement only.]




**DANGER !** — Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages at its start.

Since small amounts of UV-Radiation are emitted from an opening between the duct cover and the lamp housing, it is recommended to place the LENS CAP on the opening during servicing to avoid eye and skin exposure (Fig. 1).

Note: Please obtain a lens cap before servicing a model XG-C40XU that is received without one.

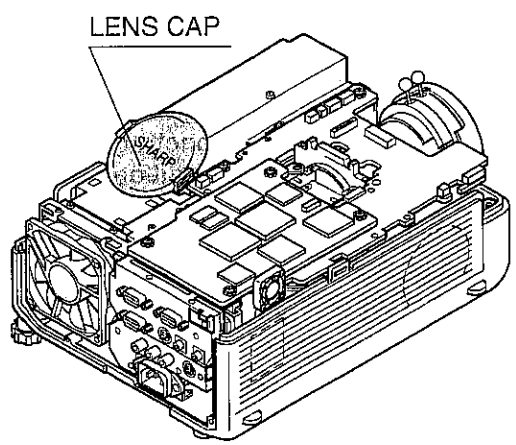



**Figure 1.**

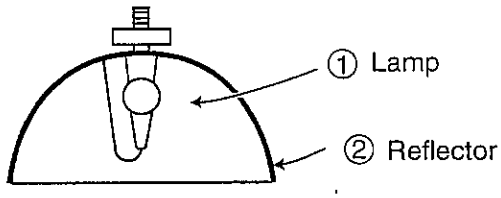
## PRECAUTION POUR LES RADIATIONS UV (Suite)

### ■ Remplacement de la lampe

**Remarque:**

Comme la lampe devient très chaude pendant le fonctionnement de l'unité, son remplacement ne doit être effectué au moins une heure après avoir coupé l'alimentation (pour permettre à la lampe de refroidir). En installant la nouvelle lampe, s'assurer de ne pas toucher la lampe (ampoule). Remplacer la lampe en tenant son réflecteur ②.

[N'utiliser qu'un remplacement d'origine.]




**DANGER !** — Ne jamais mettre sous tension sans la lampe pour éviter un choc électrique ou des dommages des appareils car le stabilisateur génère de hautes tensions à sa mise en route.

Comme de petites quantités de radiation UV sont émises par une ouverture entre le couvercle du conduit et le botier de la lampe,il est recommandé de placer le CAPUCHON D'OPTIQUE sur l'ouverture pendant l'entretien pour éviter une exposition des yeux et la peau (Fig. 1).

Remarque: Priére de se procurer un capuchon d'optique acant d'entretien un modéle XG-C40XU qui est livré sans.

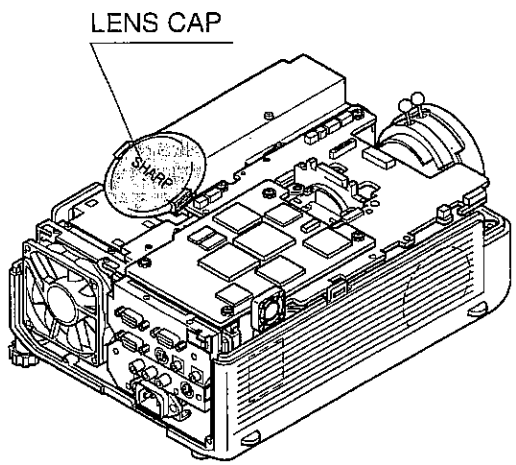



**Figure 1.**

**WARNING:** **High brightness light source, do not stare into the beam of light, or view directly. Be especially careful that children do not stare directly in to the beam of light.**

**WARNING:** **TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO MOISTURE OR WET LOCATIONS.**

**CAUTION**

RISK OF ELECTRIC SHOCK.
DO NOT REMOVE SCREWS
EXCEPT SPECIFIED USER
SERVICE SCREW

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE CABINET.
NO USER-SERVICEABLE PARTS EXCEPT LAMP UNIT.
REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL.

The lighting flash with arrowhead within a triangle is intended to tell the user that parts inside the product are risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the manual with the projector.

## CAUTION
### (INLET Unit)

5A 250V

For continued protection against a risk of fire, replace only with same type 5A 250V fuse. (F761)

**AVERTISSEMENT:** **Source lumineuse de grande intensité. Ne pas fixer le faisceau lumineux ou le regarder directement. Veiller particulièrement à éviter que les enfants ne fixent directement le faisceau lumineux.**

**AVERTISSEMENT:** **AFIN D'EVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION, NE PAS PLACER CET APPAREIL DANS UN ENDROIT HUMIDE OU MOUILLE.**

**ATTENTION**

RISQUE
D'ELECTROCUTION NE
PASRETIRER LES VIS, A
L'EXCEPTION DES VIS DE
REPARATION UTILISATEUR
SPECIFIEES

ATTENTION: POUR EVITER TOUT RISQUE
D'ELECTROCUTION, NE PAS RETIRER LE CAPOT.
AUCUNE DES PIECES INTERIEURES N'EST REPARABLE
PAR L'UTILISATEUR, A L'EXCEPTION DE L'UNITE DE
LAMPE. POUR TOUTE REPARATION, S'ADRESSER A UN
TECHNICIEN D'ENTRETIEN QUALIFIE.

L'éclair terminé d'une flèche à l'intérieur d'un triangle indique à l'utilisateur que les pi'eces se trouvant dans l'appareil sont susceptibles de provoquer une décharge électrique.

Le point d'exclamation à l'intérieur d'un triangle indique à l'utilisateur que les instructions de fonctionnement et d'entretien sont détaillées dans les documents fournis avec le projecteur.

## PRECAUTION
### (Unite d'admission)

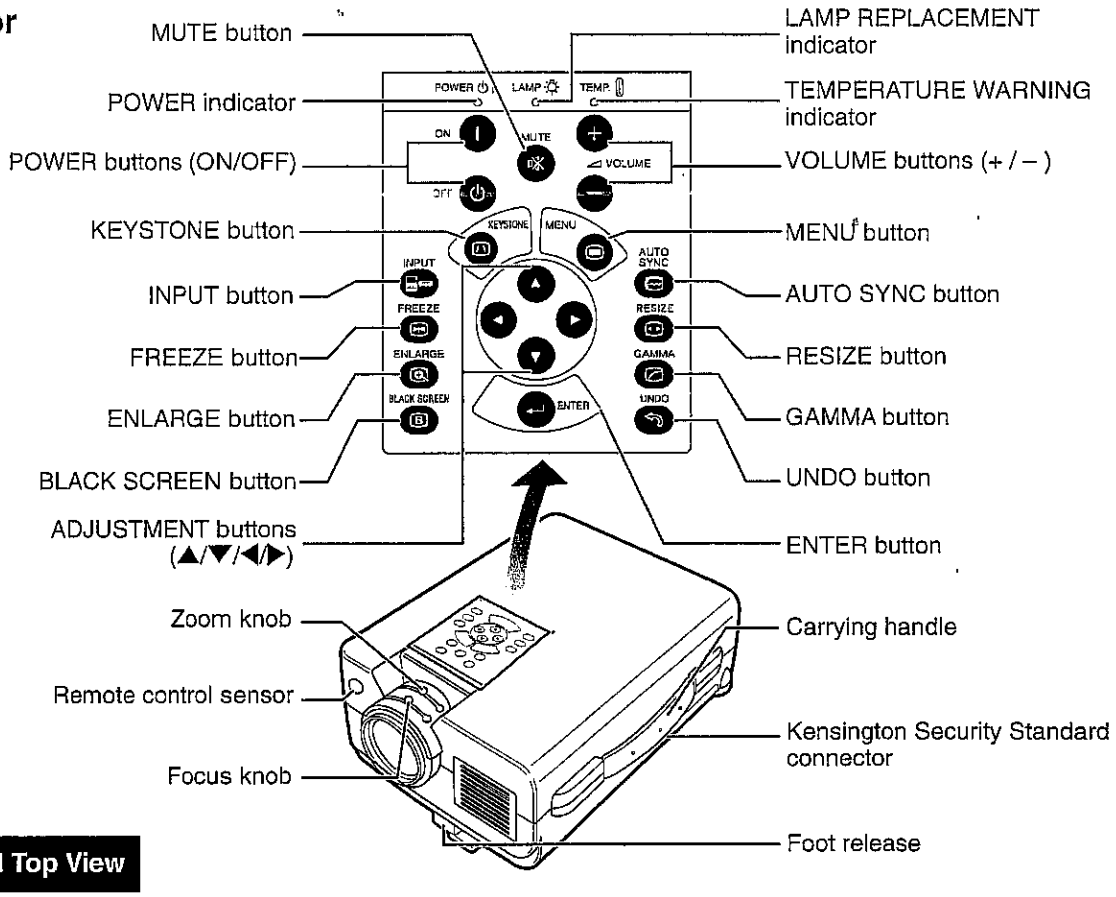
5A 250V

Pour une protection continue contre les risques d'incendie, ne remplacer qu'avec un fusible 5A 250V du même type. (F761)

# OPERATION MANUAL

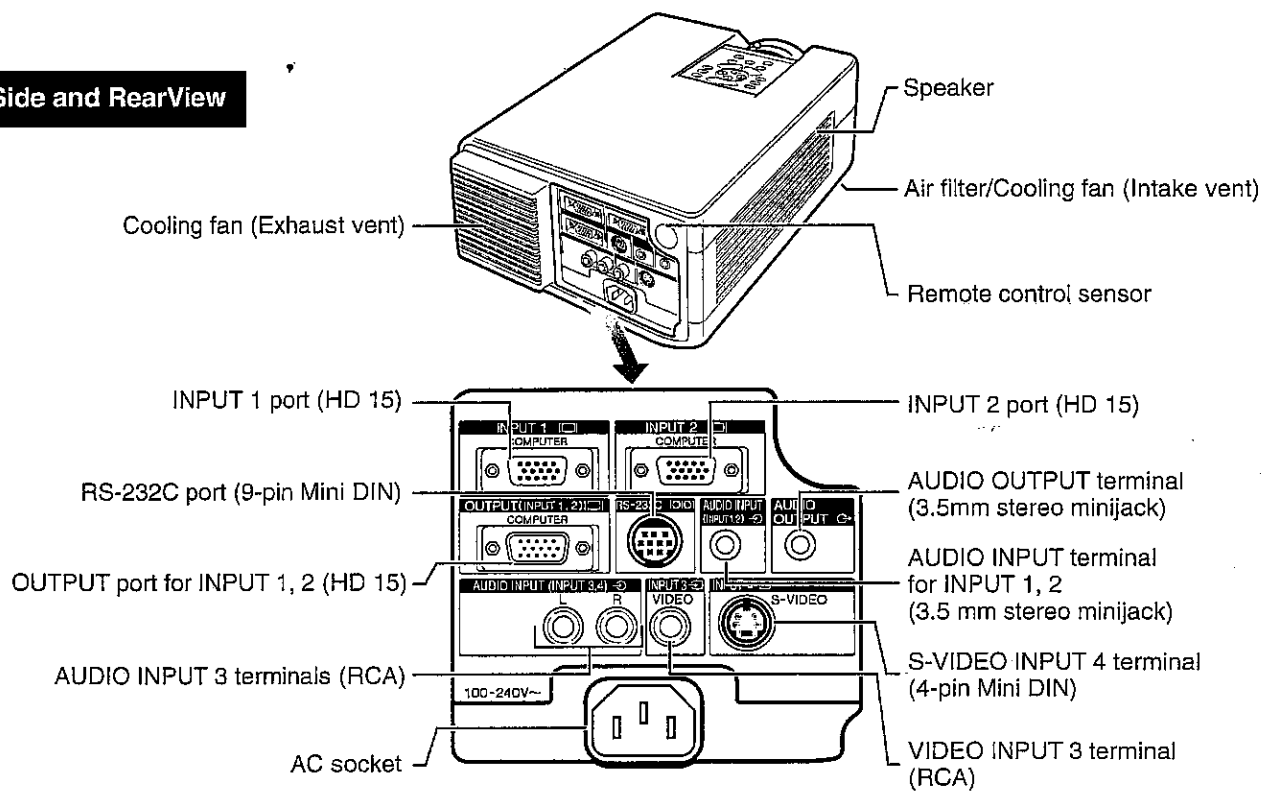
## Location of Controls

### Projector



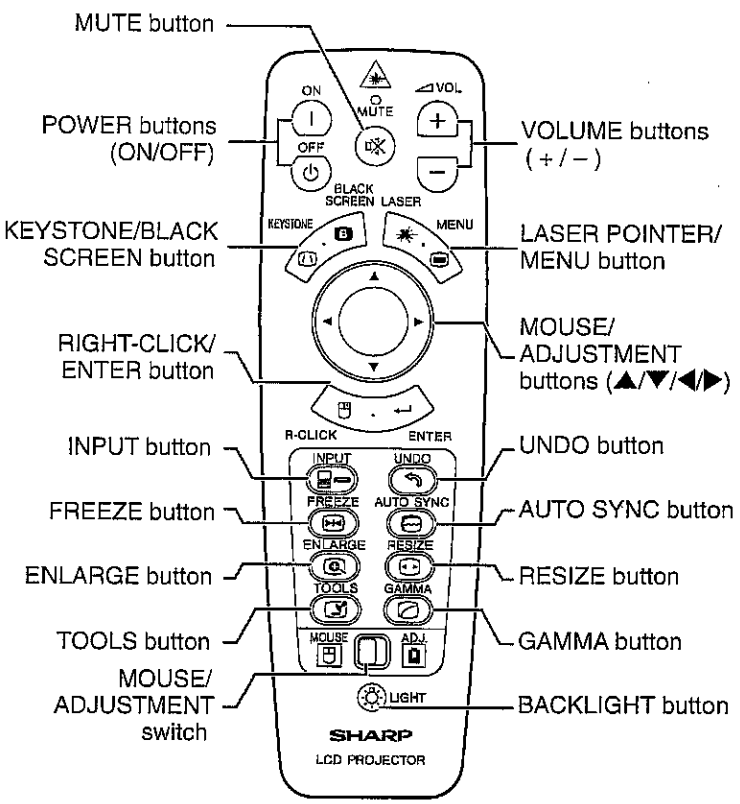

**Front and Top View**

**Side and RearView**

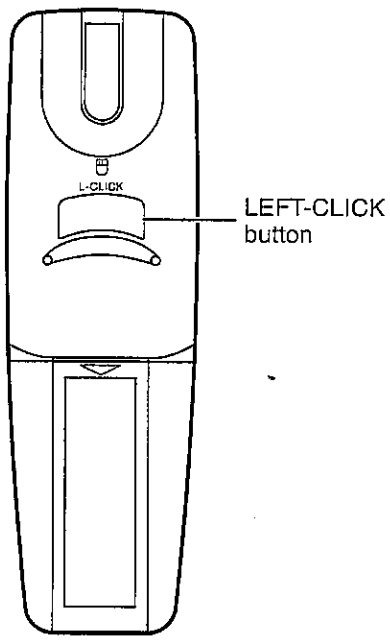


## Operating the Wireless Mouse Remote Control
## Remote Control

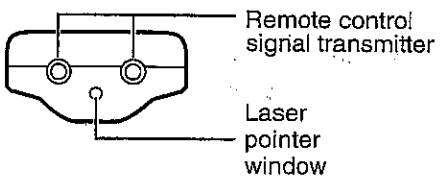
**Front View**



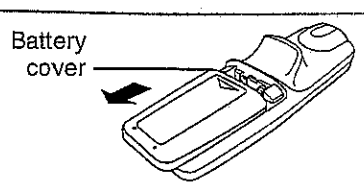
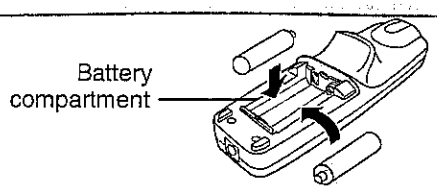
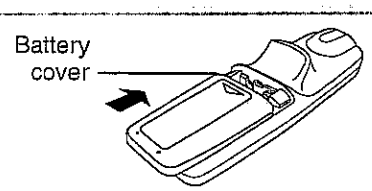

**Rear View**

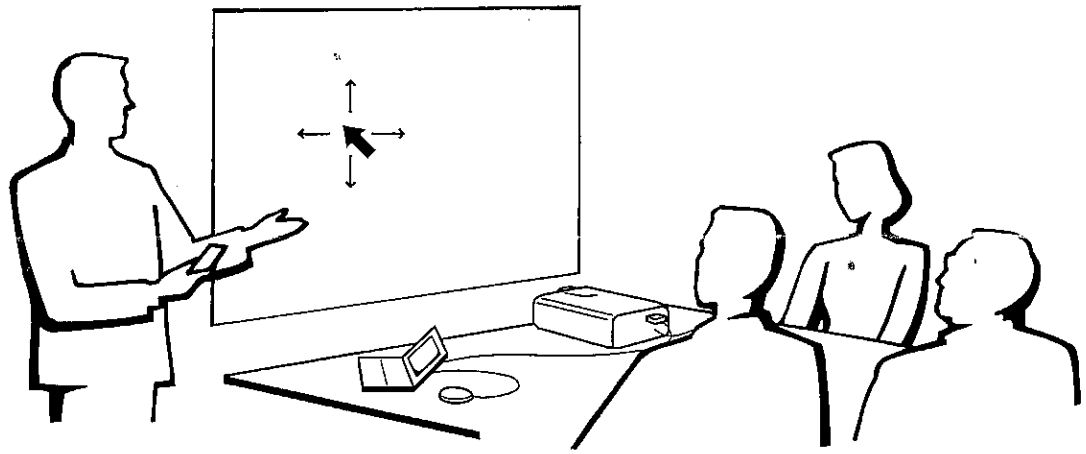



**Top View**




## Inserting the batteries

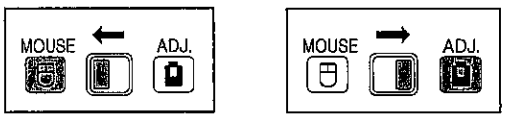
| 1 Press in on the arrow markand slide in the direction of the arrow to remove the battery cover. | 2 Insert two AA size batteries, making sure their polarities match the + and – marks inside the battery compartment. | 3 Insert the side tabs of the battery cover into their slots and press the cover in until it is properly seated. |
|---|---|---|
|   |   |   |



## Using the Remote Control as a Wireless Mouse

The remote control has the following three functions:
- Projector control
- Wireless mouse
- Laser pointer

**MOUSE/ADJUSTMENT switch (Remote control)**




**Wireless mouse**
**Laser pointer**

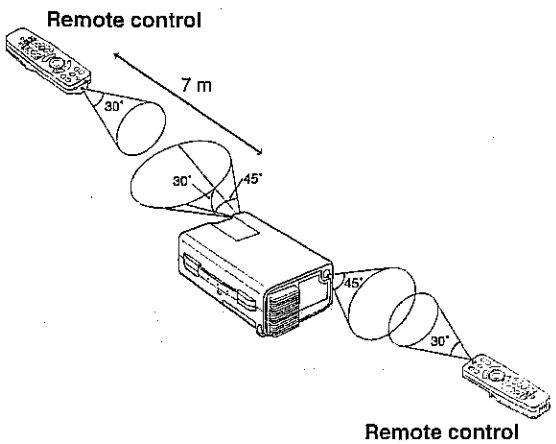
**Projector control**

## Remote Control/Mouse Receiver Positioning

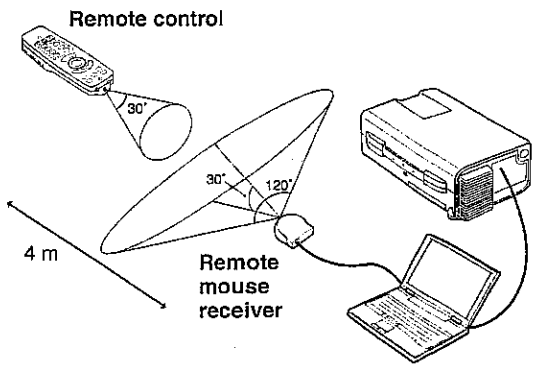
- The remote control can be used to control the projector within the ranges shown below.
- The remote mouse receiver can be used with the remote control to control the mouse functions of a connected computer within the ranges shown below.

**NOTE**
- The signal from the remote control can be reflected off a screen for easy operation. However, the effective distance of the signal may differ due to the screen material.

### Controlling the Projector

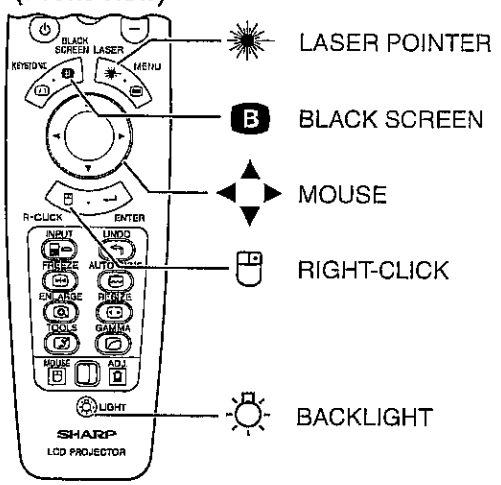



### Using the Wireless Mouse

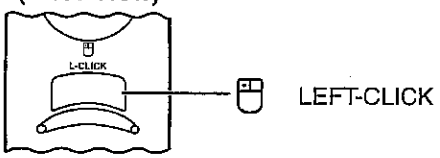


**Effective buttons in MOUSE mode**

**Remote control (Front view)**



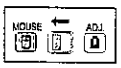

**Remote control (Rear view)**




## Use as a Wireless Mouse

Be sure the supplied remote mouse receiver is connected to your computer.

(Slide the **MOUSE/ADJUSTMENT** switch on the remote control to the MOUSE position.)




**NOTE**

- The wireless mouse may not operate correctly if your computer serial port is not correctly set up. Refer to the computer's operation manual for details of setting up/ installing the mouse driver.
- For one-button mouse systems, use either the **LEFT-CLICK** or **RIGHT-CLICK** button.

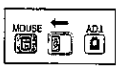
**Using the remote control in a dark room**

Press **BACKLIGHT**, and the buttons will light up. Green lights refer to mouse operations, and red lights to projector adjustments.

| Button name | Position of MOUSE/ADJUSTMENT switch | |
|---|---|---|
| | *MOUSE* ⟷ *ADJ.* | |
| LASER POINTER/MENU | LASER POINTER (GREEN) | MENU (RED) |
| BLACK SCREEN/KEYSTONE | BLACK SCREEN (GREEN) | KEYSTONE(RED) |
| RIGHT-CLICK/ENTER | RIGHT-CLICK (GREEN) | ENTER (RED) |
| MOUSE/ADJUSTMENT | MOUSE (NOT LIT) | ADJUSTMENT (NOT LIT) |
| LEFT-CLICK | ON (NOT LIT) | — |
| POWER ON/OFF | ON (RED) | |
| VOLUME +/– | | |
| MUTE | | |
| INPUT | | |
| UNDO | | |
| FREEZE | | |
| AUTO SYNC | | |
| ENLARGE | | |
| RESIZE | | |
| TOOLS | | |
| GAMMA | | |

## Use as a Laser Pointer

(Slide the **MOUSE/ADJUSTMENT** switch on the remote control to the MOUSE position.)



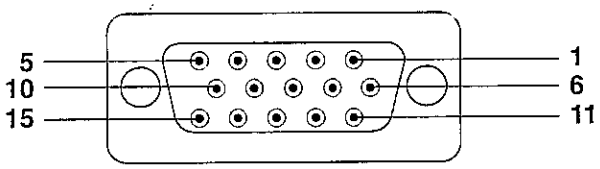

Press **LASER POINTER** (✳) to activate the laser pointer. When the button is released, the light automatically goes off.

**NOTE**

- For safety, the laser pointer automatically goes off after 1 minute of continuous use. To turn it on, release **LASER POINTER** (✳) and press again.

## Connection Pin Assignments

**Analog Computer 1 and 2 Signal Input Ports:** 15-pin mini D-sub female connector




**Computer Input**

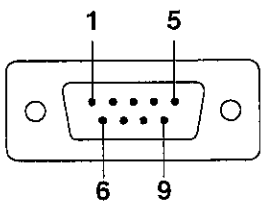
Analog

1. Video input (red)
2. Video input (green/sync on green)
3. Video input (blue)
4. Reserve input 1
5. Composite sync
6. Earth (red)
7. Earth (green/sync on green)
8. Earth (blue)
9. Not connected
10. GND
11. GND
12. Bi-directional data
13. Horizontal sync signal
14. Vertical sync signal
15. Data clock

**Component Input**

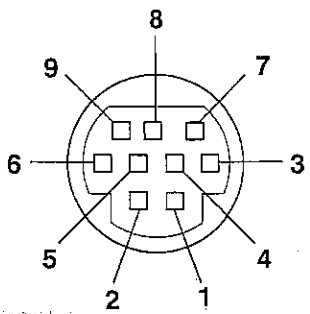
1. $P_R$ ($C_R$)
2. Y
3. $P_B$
4. Not connected
5. Not connected
6. Earth ($P_R$)
7. Earth (Y)
8. Earth ($P_B$)
9. Not connected
10. Not connected
11. Not connected
12. Not connected
13. Not connected
14. Not connected
15. Not connected

**RS-232C Port:** 9-pin D-sub male connector of the DIN-D-sub RS-232C cable




| Pin No. | Signal | Name | I/O | Reference |
|---|---|---|---|---|
| 1 | CD | | | Not connected |
| 2 | RD | Receive Data | Input | Connected to internal circuit |
| 3 | SD | Send Data | Output | Connected to internal circuit |
| 4 | ER | | | Not connected |
| 5 | SG | Signal Ground | | Connected to internal circuit |
| 6 | DR | Data Set Ready | Output | Not connected |
| 7 | RS | Request to Send | Output | Connected to internal circuit |
| 8 | CS | Clear to Send | Input | Connected to internal circuit |
| 9 | CI | | | Not connected |

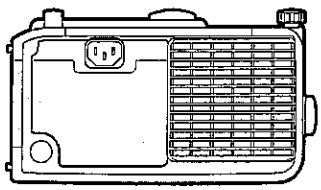
**RS-232C Terminal:** 9-pin Mini DIN female connector



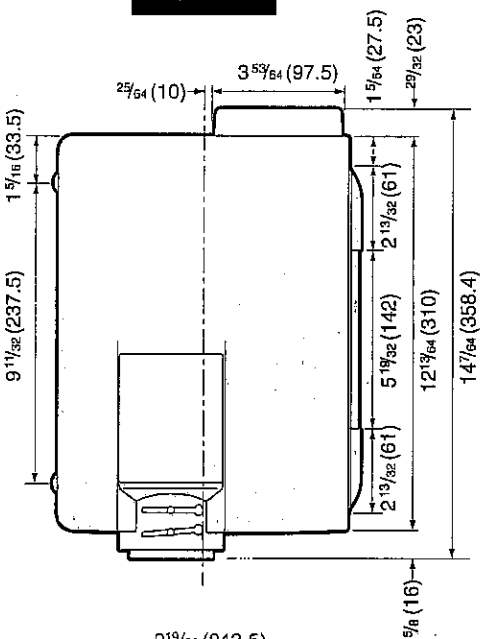

| Pin No. | Signal | Name | I/O | Reference |
|---|---|---|---|---|
| 1 | VCC | + 3.3V (Reserved) | Output | Not connected |
| 2 | RD | Receive Data | Input | Connected to internal circuit |
| 3 | SD | Send Data | Output | Connected to internal circuit |
| 4 | EXIR | Detector of Option Unit (Reserved) | Input | Not connected |
| 5 | SG | Signal Ground | | Connected to internal circuit |
| 6 | ERX | IR Receive Signal from IR Amplifier (Reserved) | Input | Not connected |
| 7 | RS | Request to Send | Output | Connected to internal circuit |
| 8 | CS | Clear to Send | Input | Connected to internal circuit |
| 9 | ETX | IR Transmit Signal (Reserved) | Output | Not connected |

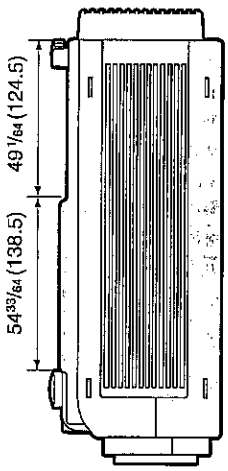
## Dimensions

Rear Vie

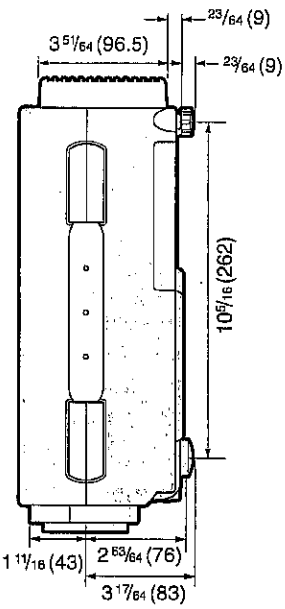


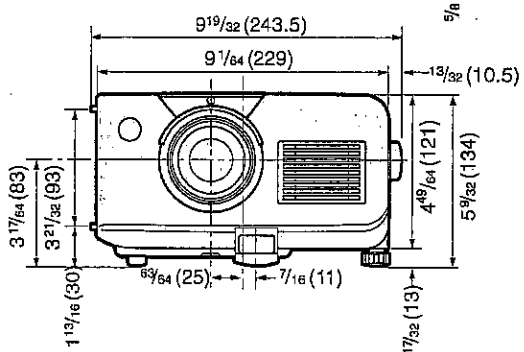
Top View



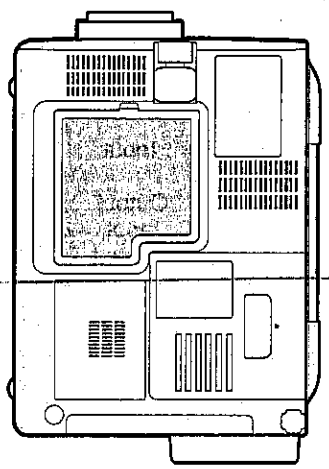




Side View




Front View



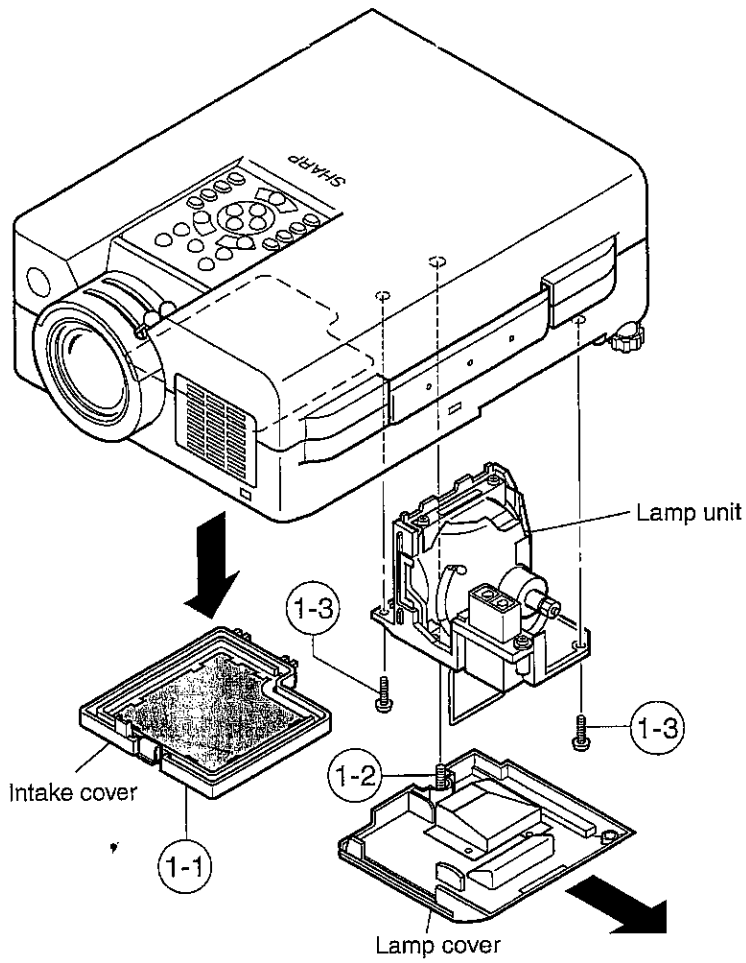
Bottom View

Units: inches (mm)

# REMOVING OF MAJOR PARTS

## 1. Removing the Intake cover and lamp unit

1-1. Detach the Intake cover.
1-2. Loosen the lamp cover screw and draw out the lamp cover in the direction of arrow (toward yourself).
1-3. Remove the two lamp unit lock screws. Detach the lamp unit.

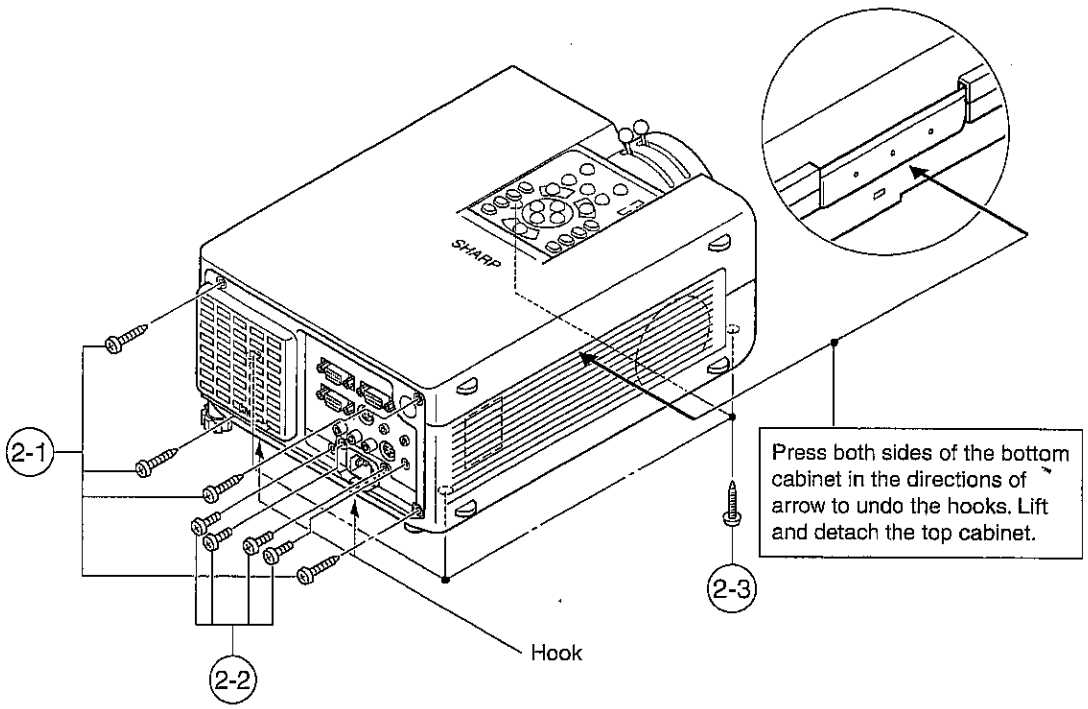



**Note:**

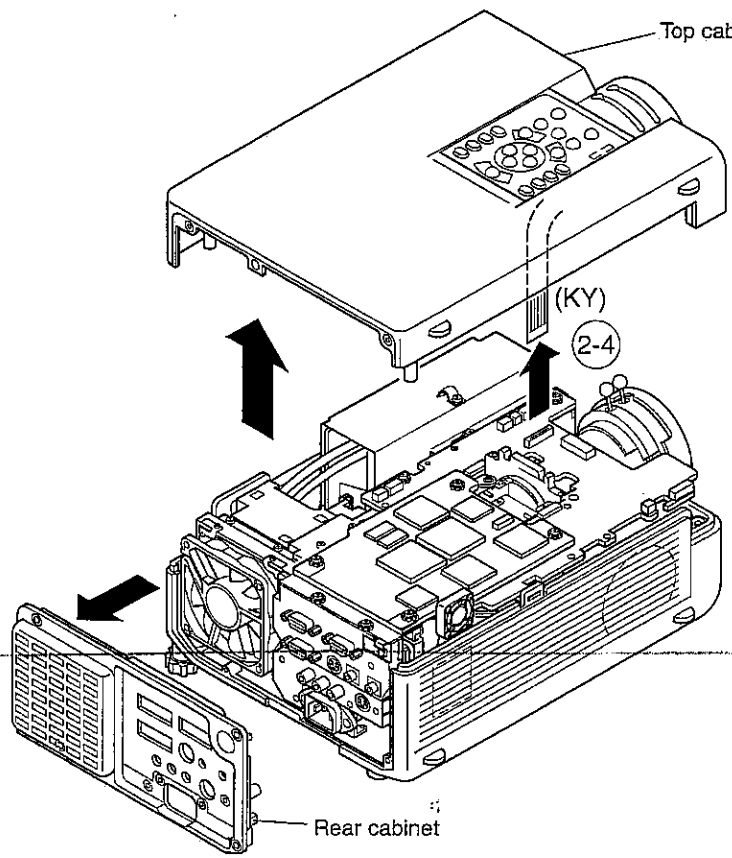
When replacing the lamp, make sure that there is a clearance of over 8mm between the terminal and the lamp snap-on spring (and other metallic parts).

## 2. Removing the top and rear cabinets

2-1. Remove the four rear cabinet lock screws.
2-2. Remove the four terminal board lock screws off the rear cabinet. Unhook and detach the rear cabinet from below.
2-3. Remove the four top cabinet lock screws from below.

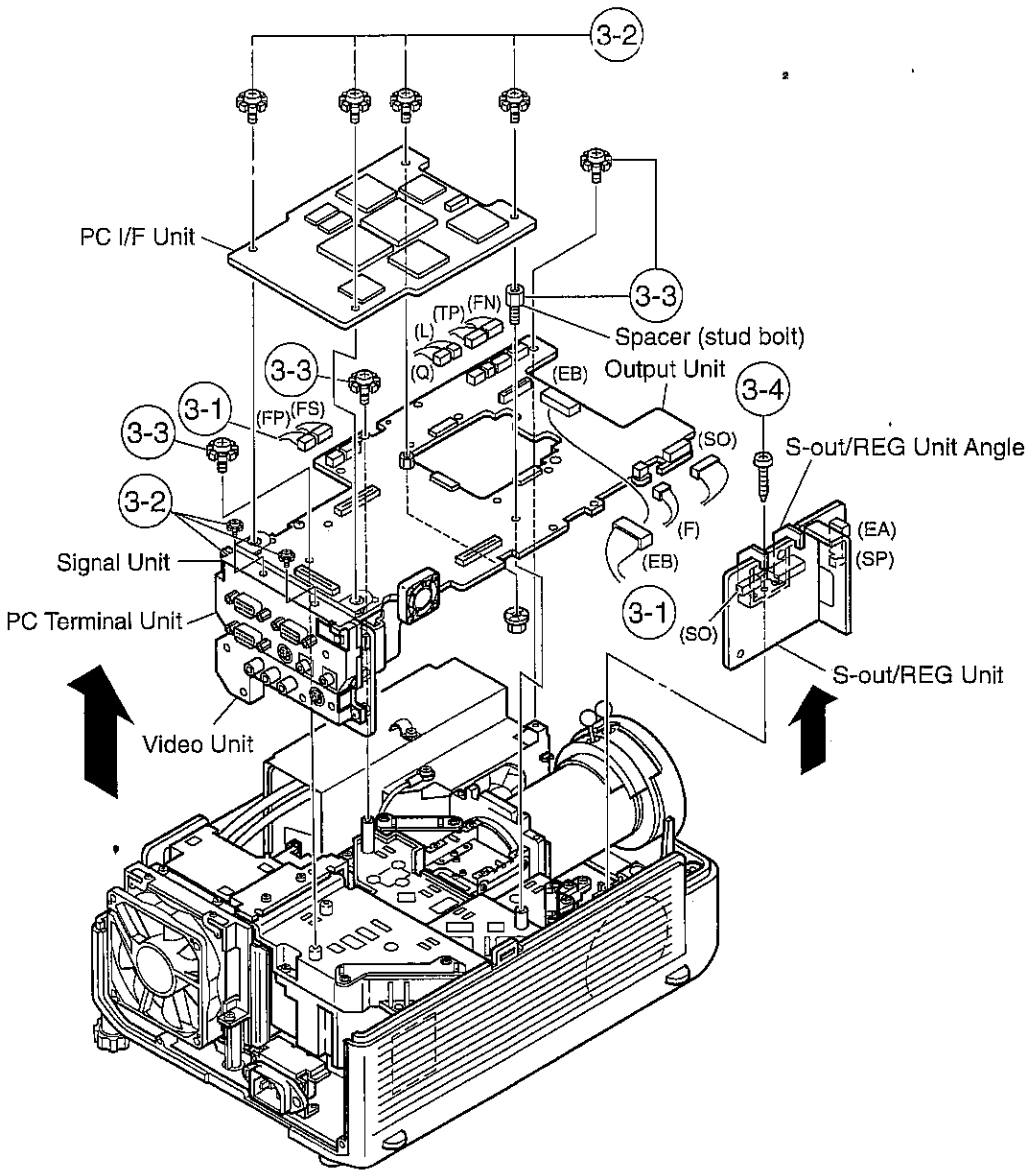

SHARP
2-1
2-2
2-3
Hook
Press both sides of the bottom cabinet in the directions of arrow to undo the hooks. Lift and detach the top cabinet.

2-4. Slowly lift the top cabinet and disconnect the operation key unit connector (KY). Then take away the top cabinet.



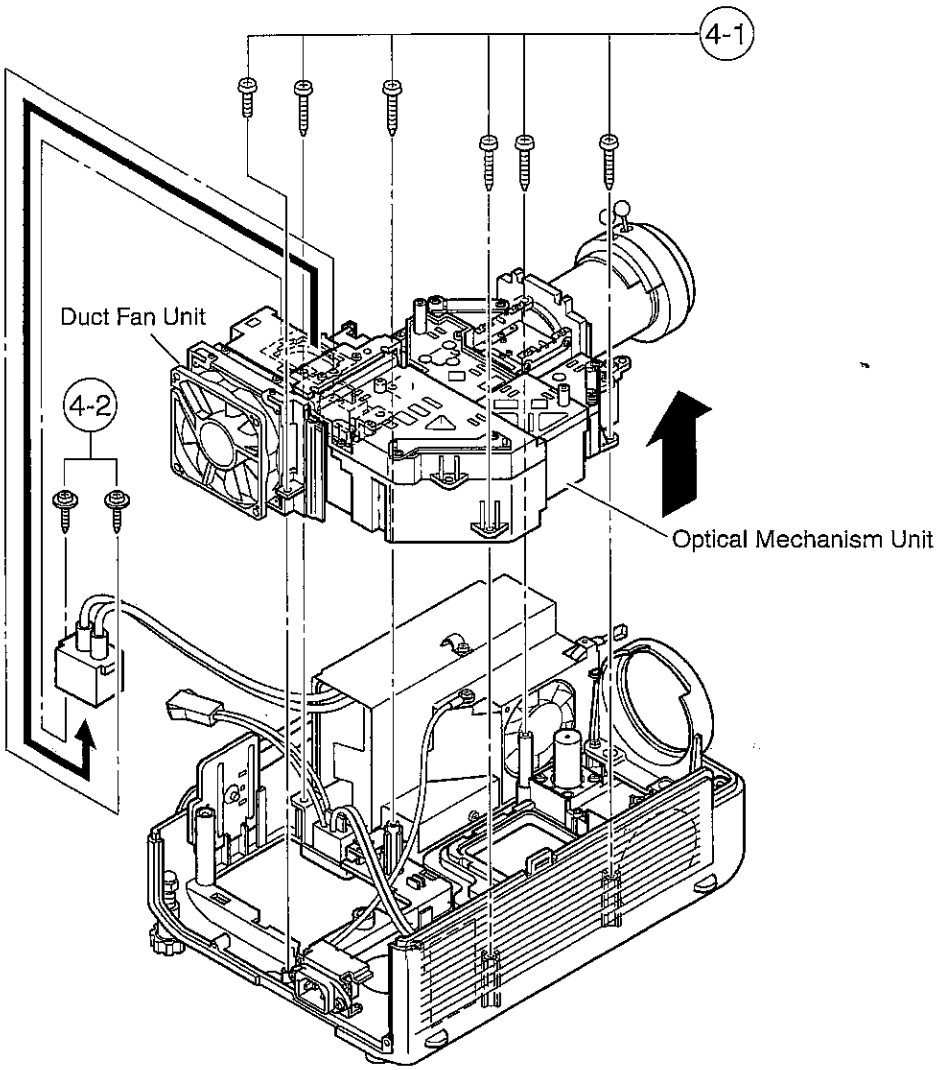
## 3. Removing the PWB units

3-1. Disconnect the connectors from the output unit.
3-2. Remove the four PC I/F unit lock screws.
Remove the two screws and the earth shield, and take out the PC I/F unit.
3-3. Remove the spacer (stud bolt) and the three screws off the output unit. Lift the output unit, together with the signal unit, off the position.
3-4. Remove the S-out/REG unit angle lock screw and take out the S-out/REG unit.



## 4. Removing the optical mechanism unit

4-1. Remove the six optical mechanism unit lock screws. Lift the unit off the position.
4-2. Remove the two lamp socket holder lock screws and take out the holder.

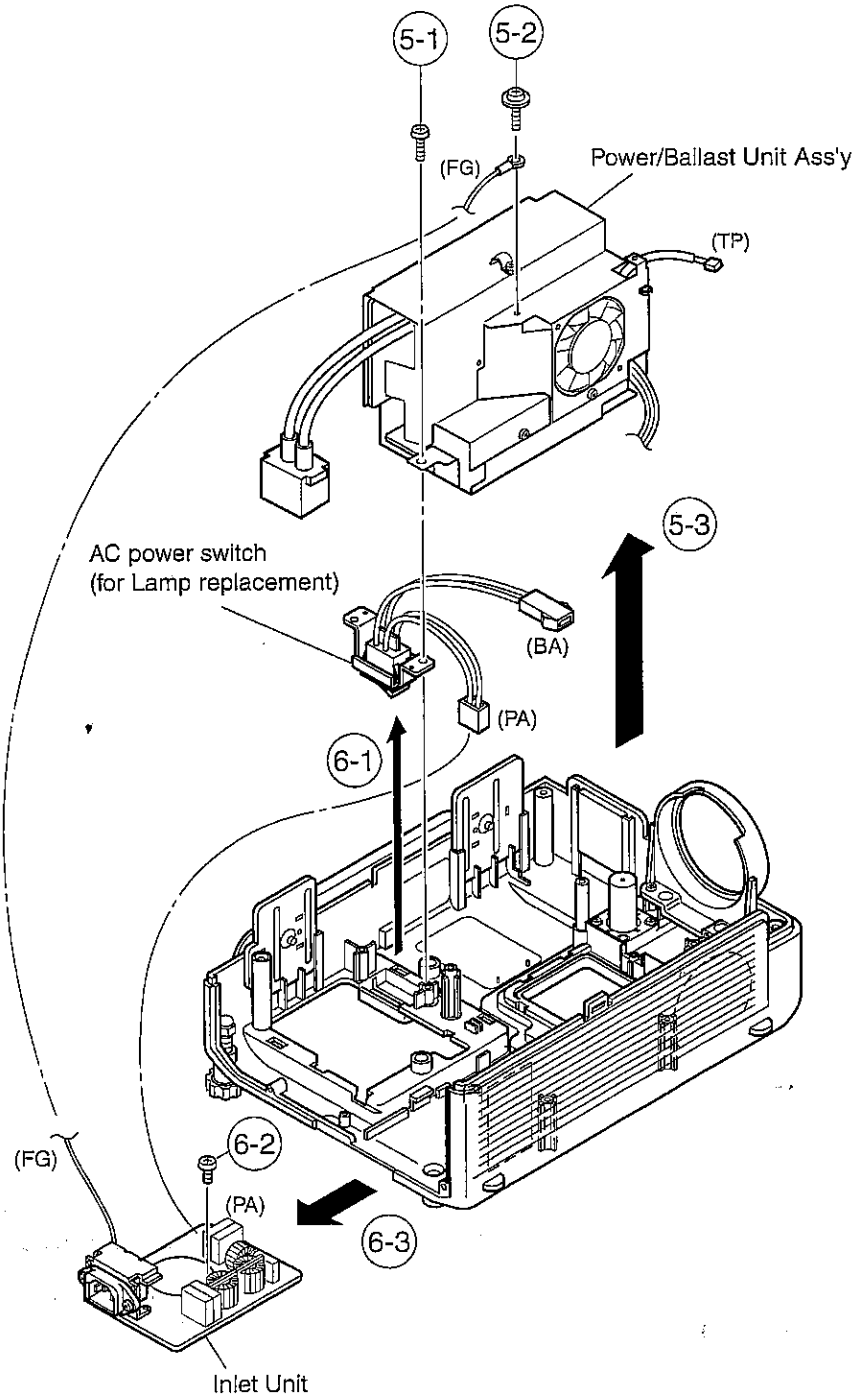


## 5. Removing the Power/Ballast unit assembly

5-1. Remove the Power/Ballast unit assembly lock screw.
5-2. Remove the (FG) lead lock screw.
5-3. Lift the Power/Ballast unit assembly off the position.

## 6. Removing the ballast unit and inlet unit

6-1. Disconnect the connector (PA) from the inlet unit. Take out the AC power switch.
6-2. Remove the Inlet unit lock screw.
6-3. Pull the inlet unit toward yourself off the position.
**Note:** Before installing the lamp cover, make sure the AC power switch is at the "◯" (OFF) position.

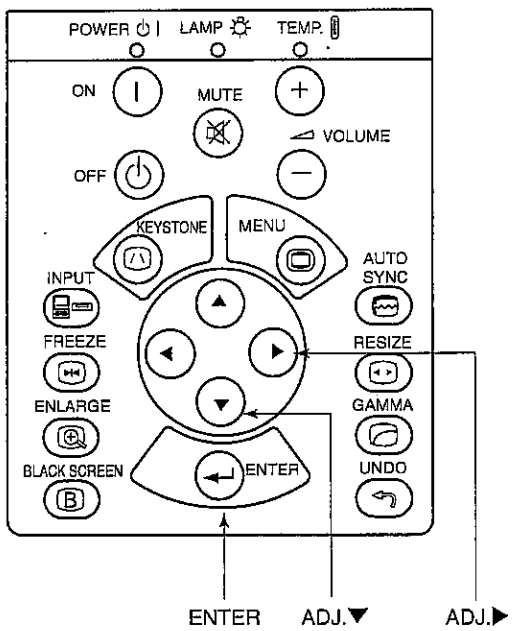


# RESETTING THE TOTAL LAMP TIMER

**When the lamp has been replaced, reset the total lamp timer in the following steps.**

## Resetting procedure

1. While holding down the "ENTER", "ADJ.▼" and "ADJ.▶" keys on the set at the same time, turn on the main power switch (located side the AC inlet).
2. Now the total lamp timer is reset to zero. "000H" appears on the screen.




## Lamp

The lamp in this projector operates for approximately 2,000 cumulative hours, depending on the usage environment. It is recommended that the lamp be replaced after 1,900 cumulative hours of use or when you notice a significant deterioration of the picture and colour quality. The lamp usage time can be checked with the On-screen Display.

**⚠ CAUTION**

- Intense light hazard. Do not attempt to look into the aperture and lens while the projector is operating.

**NOTE**

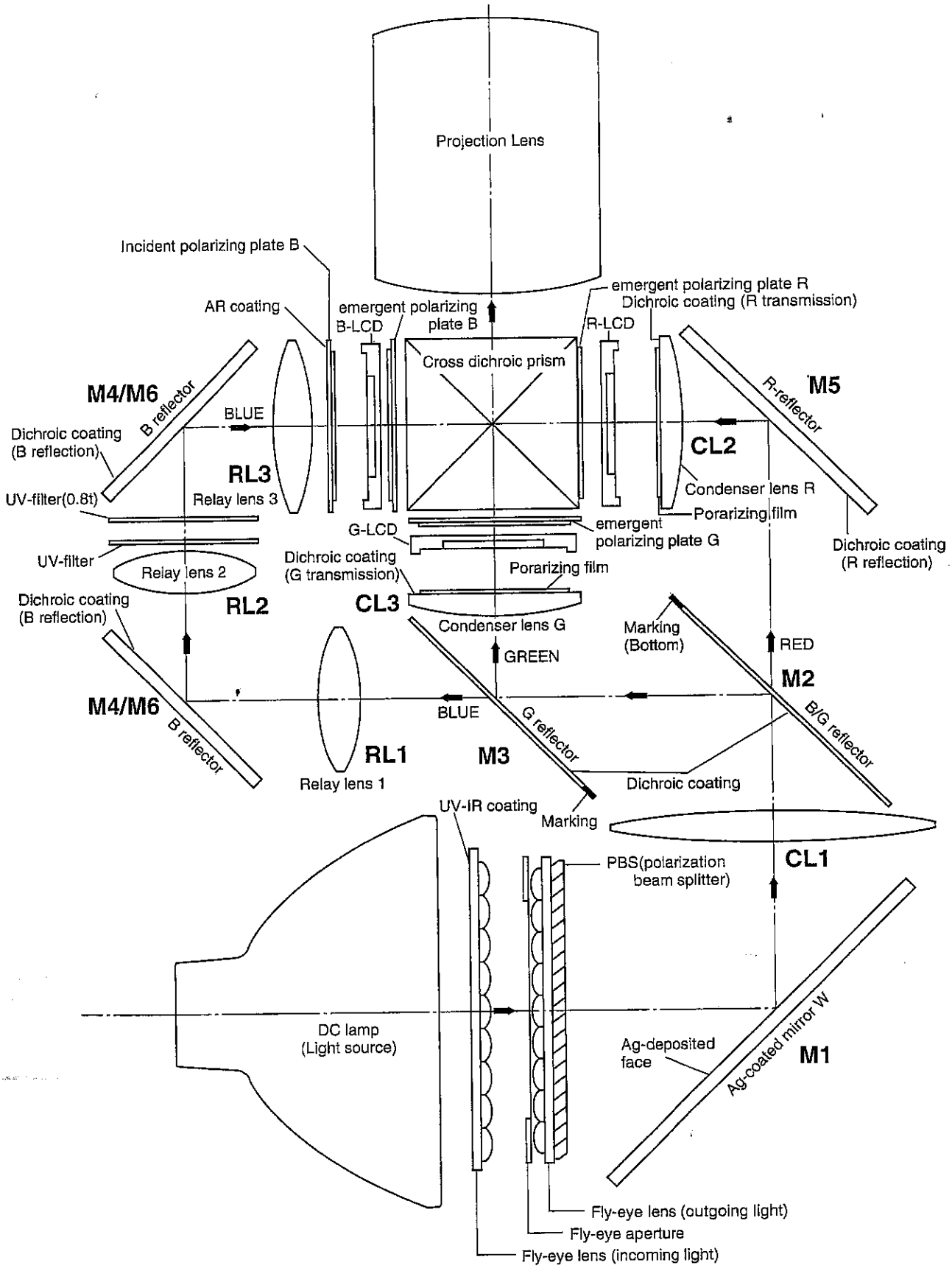
- As the usage environment can vary significantly, the projector lamp may not operate for 2,000 hours.

| Condition | Problem | Possible Solution |
|---|---|---|
| The LAMP REPLACEMENT indicator lights up red, and "LAMP" and "☼" will flash in yellow in the lower-left corner of the picture. | • Lamp has been used for over 1,900 hours. | • Purchase a replacement lamp unit (lamp/cage module) of the current type BQC-XGC40XU/1 from your nearest Sharp Authorised LCD Projector Dealer or Service Centre.<br>• Replace the lamp. If you wish, you may have the lamp replaced at your nearest Sharp Authorised LCD Projector Dealer or Service Centre. |
| A significant deterioration of the picture and colour quality occurs. | | |
| The power will automatically turn off and the projector will enter standby mode. | • Lamp has been used for over 2,000 hours. | |
| "LAMP" and "☼" will flash in red in the lower-left corner of the picture, and the power will turn off. | | |

# THE OPTICAL UNIT OUTLINE

## Layout of the optical system

**Note: Layout for positioning the optical system.**



# CONVERGENCE AND FOCUS ADJUSTMENT

- **Start the convergence and focus adjustments with the top panel removed but the power on. Use the remote control to adjust the image. Take the following procedures.**

## 1. Focusing the projection lens

**(A) Replacing all the 3 LCD panels**

1. Before replacing all the 3 LCD panels, project an image on the screen and bring it into focus.
2. Replace the LCD panels with new ones. But until the focus has been completely readjusted, be careful not to change the projection distance between the set and the screen, nor to move the projection lens focus and zoom rings.

Note:

If the focus is readjusted with a different positional relation, the relation between the projection distance and the screen size is affected. In other words, a short-distance image (40 WIDE for example) may get out of the focus range, or a long-distance image (300 WIDE for example) may come out of the focus.

**(B) Replacing 1 or 2 of the 3 LCD panels**

1. In adjusting the focus after replacement of one or two LCD panels, project an image on the screen and turn the projection lens focus ring to get the non-replaced LCD panel into focus.
2. But until the focus has been completely adjusted for the new LCD panels, be careful not to change the projection distance between the set and the screen, nor to move the projection lens focus and zoom rings.
3. If the projection distance has been changed or the projection lens readjusted, repeat the above steps 1 and 2.

## 2. Focus adjustment

**(A) Adjusting the G-LCD panel(Make this adjustment on the white-only screen.)**

1. Adjustment in θX and Z directions .
   Loosen the lock screw "a" and insert an eccentric screwdriver into the notch and hole "a". Turn the screwdriver until the top, center and bottom on the screen get into focus. In adjusting this top-to-bottom focus, tighten the lock screws "b" and "c" to fix the θY direction adjustment.
   First get the right and left halves in balance. Then improve the accuracy while making the adjustment 2 below.
2. Adjustment in θY direction
   Temporarily tighten the lock screw "a" and loosen the lock screws "b" and "c". Insert the eccentric screwdriver into the notch and hole "c" for adjusting in the θY direction on the top of the screen. Insert the eccentric screwdriver into the notch and hole "b" for adjusting in the θY direction on the bottom of the screen.
3. Repeat the above steps 1 and 2 to finely adjust the focus. Finally tighten up all the lock screws.

Notes :

① Carefully proceed with the focus adjustment because the adjusting directions are correlated.
② In adjusting the convergence and focus, do not move the projection lens zoom and focus rings until the end of all the adjustments.

**(B) Adjusting the B-LCD panel (Do the same for the R-LCD panel.)**

1. Take the same procedure as for the G-LCD panel focus adjustment. Note that the adjustment range is wider in the Z direction. If the convergence is quite different between the B-LCD and G-LCD panels, roughly adjust the convergence first and then the focus.

## 3. Convergence adjustment

- Use a crosshatch pattern signal for this adjustment.
  Make the adjustment just for the G-LCD and the relevant colour.

1. Loosen the convergence lock screw "d".
2. Adjustment in Y and θZ directions
   Put a hex wrench in the Y and θZ direction adjustment zone.
3. Adjustment in X direction
   Put an eccentric cam adjusting wrench in the X direction adjustment zone.

4. With the G-LCD panel's screen center as refernce, adjust the R-LCD and B-LCD panels.
5. Finally tighten up the convergence lock screw "d".

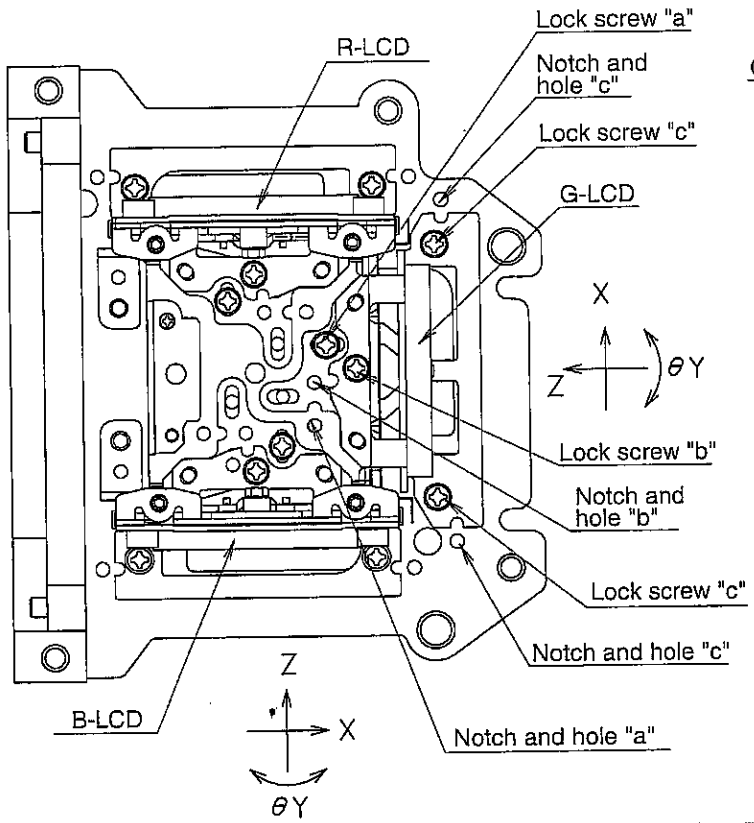
Notes :

① The eccentric cam is used for convergence adjustment.
This means that the cam's turning and the linear movement are not always uniform.

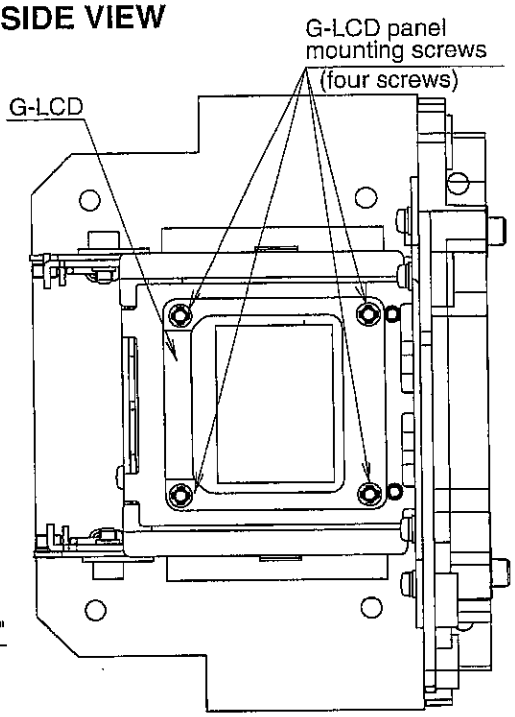
② This model is not equipped with the LCD image adjustment mechanism. This is because the cross-dichroic prism is used for image formation. When the LCD panels all get into best focus, the images are almost completely converged.

## Convergence and Focus Adjustments Mechanism

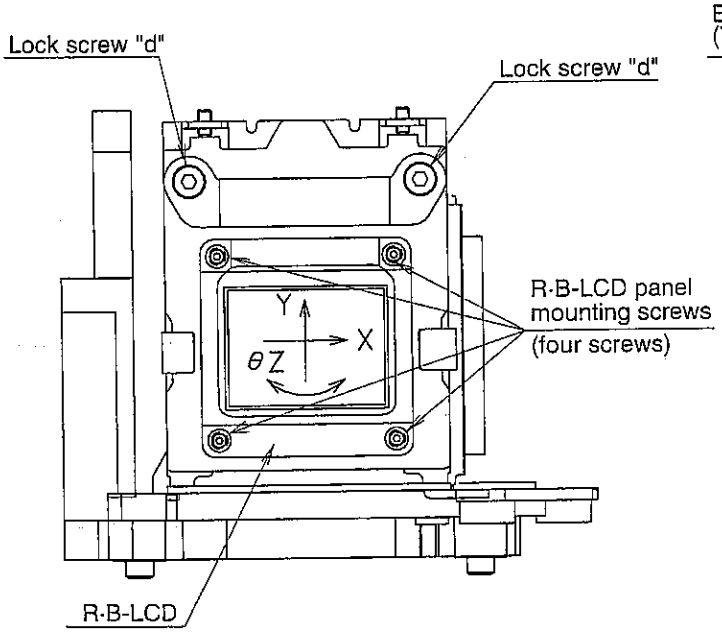
### TOP VIEW



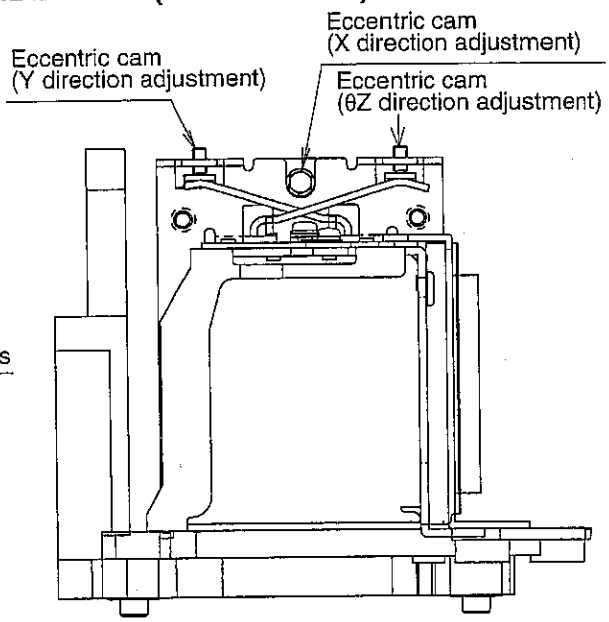

### SIDE VIEW




### SIDE VIEW (from inside)




### SIDE VIEW (from outside)



# Convergence and Focus Adjustments at a Glance

## Adjustment directions

| Adjustment | Direction | Definition | Direction of LCD panel |
|---|---|---|---|
| Convergence | X direction | | LCD right and left |
| | Y direction | | LCD top and bottom |
| | θZ direction | Rotation around Z axis | LCD turning axis |
| Focus | Z direction | | LCD optical axis |
| | θX direction | Rotation around X axis | LCD top-to-bottom flapping |
| | θY direction | Rotation around Y axis | LCD right-to-left flapping |

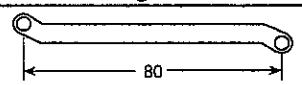
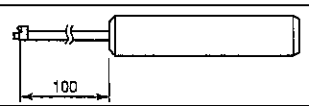
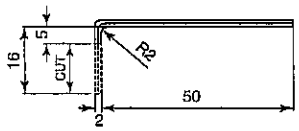
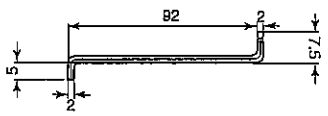
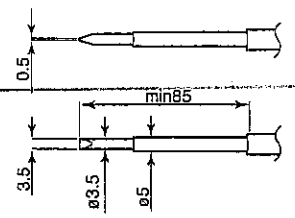
## Convergence and Focus Adjustment for the Optical Mechanism

| Colour | Adjustment | Direction | Movement | Position | Adjusting tool | Lock screw | Tightening tool |
|---|---|---|---|---|---|---|---|
| R/B colours | Convergence | X direction | ±0.8mm | Eccentric cam | Eccentric cam adjusting wrench | d | Hex wrench |
| | | Y direction | ±0.8mm | Eccentric cam | Eccentric cam adjusting wrench | d | Hex wrench |
| | | θZ direction | ±1° | Eccentric cam | Eccentric cam adjusting wrench | d | Hex wrench |
| | Focus | Z direction | ±0.8mm | Notch and hole "a" & "c" | Eccentric screwdriver, Bladed screwdriver | a, c | Phillips screwdriver, *Hex wrench |
| | | θX direction | ±1° | Notch and hole "a" & "c" | | a, c | |
| | | θY direction | ±1° | Notch and hole "b" & "c" | | b, c | |
| G colour | Focus | Z direction | ±0.2mm | Same as for R and B colours | | | |
| | | θX direction | ±1° | | | | |
| | | θY direction | ±1° | | | | |

## Focus Adjustments the Other Way

| Lock screw | Position | Related direction |
|---|---|---|
| a | Notch and hole "a" | Z and θX directions |
| b | Notch and hole "b" | θY direction |
| c | Notch and hole "c" | Z, θX and θY directions |

## Convergence and Focus Adjusting and Tightening Tools

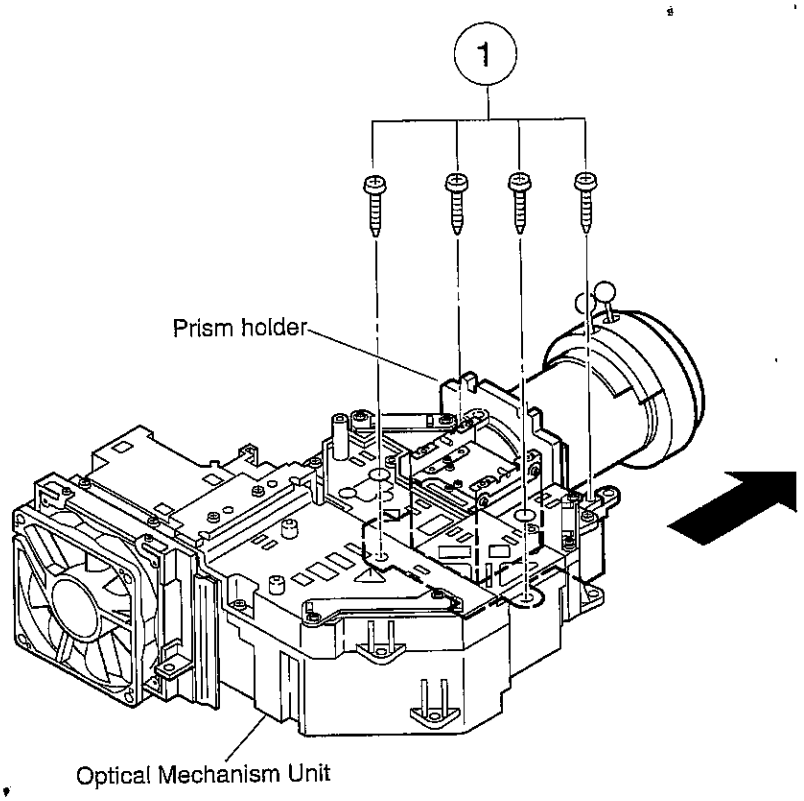
| Tool | Specific or General | Tool code | Configuration |
|---|---|---|---|
| Eccentric cam adjusting wrench | Specific | 9DASPN-XGNV1U |   |
| Eccentric screwdriver | Specific | 9DADRiVER-NV4U |   |
| Hex wrench | General (redesigned) | 9EQLNC-XGNV1U |   |
| | | 9EQLNC-XGNV4U |   |
| Bladed screwdriver | General | 9EQDRiVER-NV1B |   |
| Phillips screwdriver | General | — | For M2.6 pan-head machine screw |
| *Hex wrench | General | — | 1.27mm, preferably use a 70 mm or longer screwdriver (with a handle). |

## Replacing the LCD panels

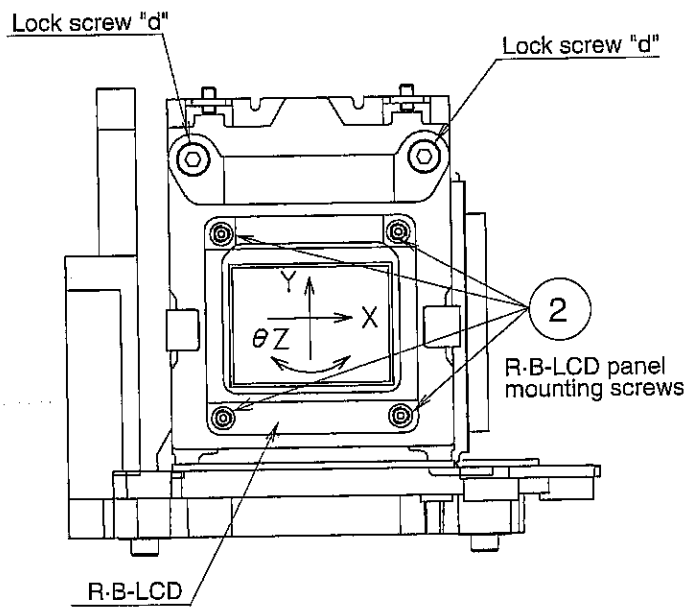
**Detach the top panel and the optical mechanism unit in advance.**

(1) Remove the four prism holder lock screws. Detach the prism holder from the optical mechanism unit.
(2) Remove the LCD panel lock screws (four each for the R-, G- and B-LCD panels). Detach the LCD panels from the prism holder.
(3) Mount a new LCD panel in the reverse order of the above steps (1) and (2).

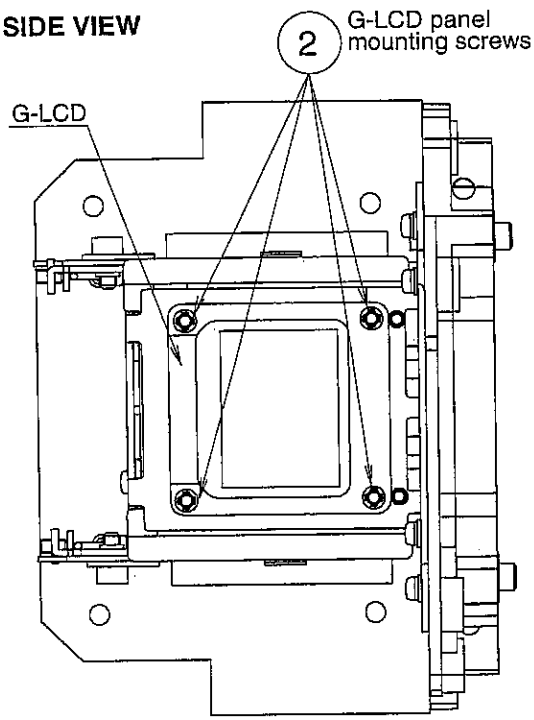
* Readjust the convergence and focus. Note that the G-LCD panel needs no convergence adjustment and has a small adjustment range in the Z direction.




**SIDE VIEW (from inside)**




**SIDE VIEW**

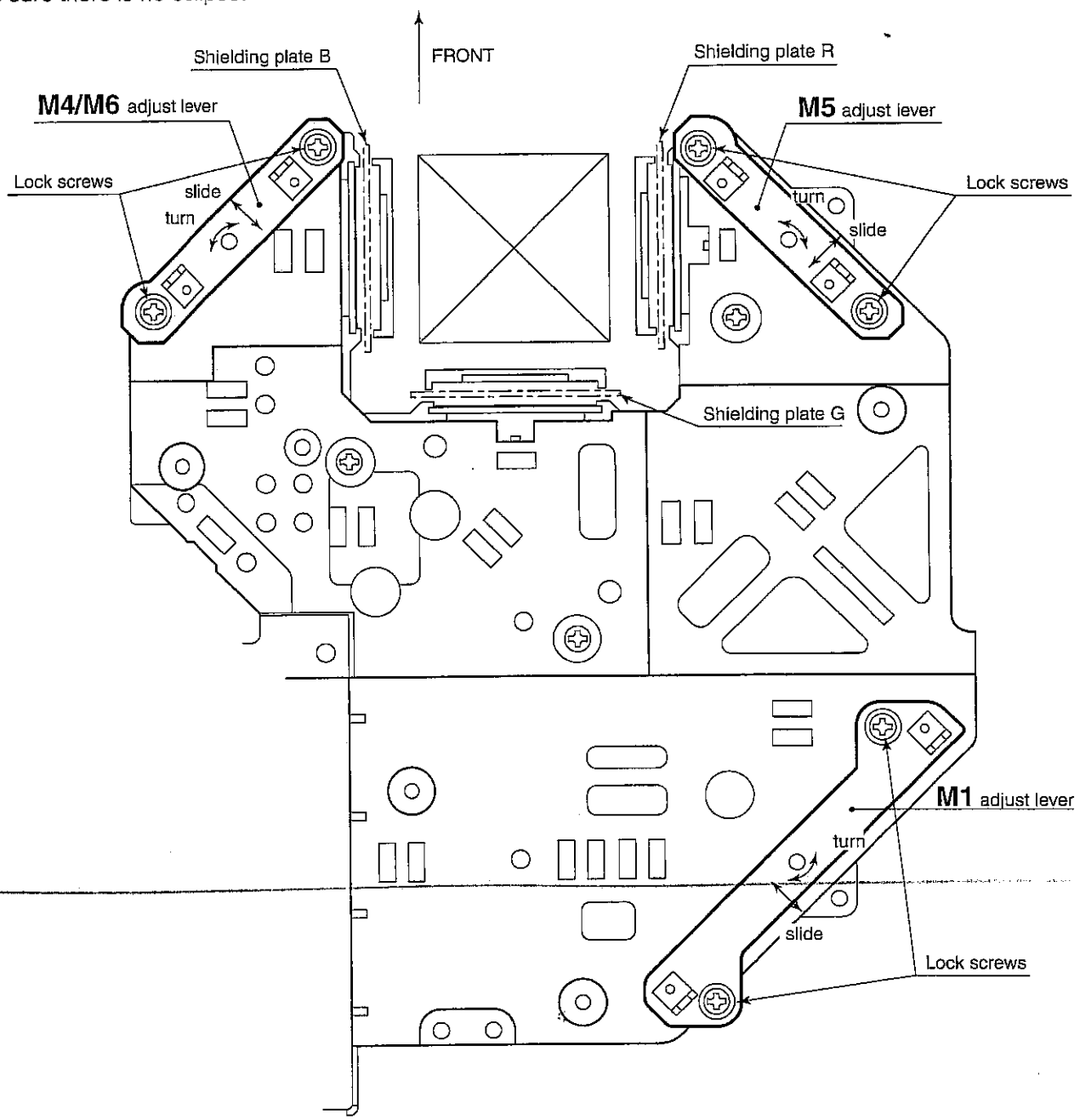


## Adjusting the optical axis of the mirrors (M1, M5 and M4/M6)

**The optical axis must be readjusted if an eclipse happens with the R. G or B mirrors. Generally speaking, this adjustment is needed when any of the internal optical components has been replaced.**

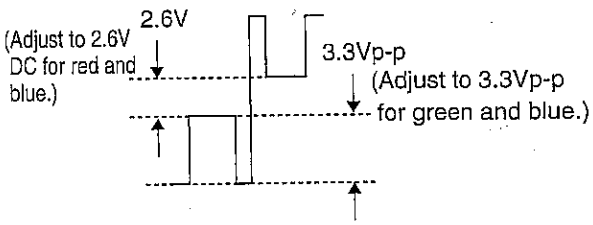
**Adjustment procedure required when any of the panels has been replaced or the convergence has been adjusted**

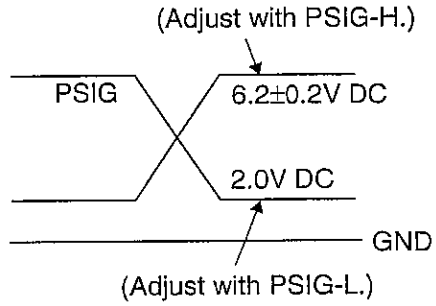
(1) Disconnect the flat cables of all the LCD panels.
(2) Let the lamp light up.
(3) To adjust the G mirror, shield the R and B mirrors with shielding plates (You can use a business card or the like to block the light).
(4) Loosen the lock screw of the M1 adjust lever.
(5) Looking at the G image on the screen, turn or slide the M1 adjust lever until the eclipse on the screen disappears. Tighten up the screw.
(6) To adjust the R mirror, shield the G and B mirrors and adjust the M5 adjust lever. For the B mirror, shield the R and G mirrors and adjust the M6 adjust lever.
(Take the same steps 4 and 5 above.)
(7) Remove all the shielding plates to have a white image.
Make sure there is no eclipse.

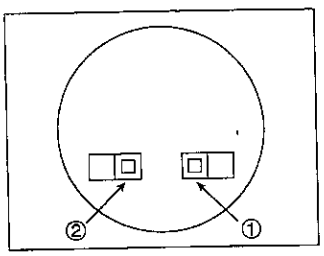
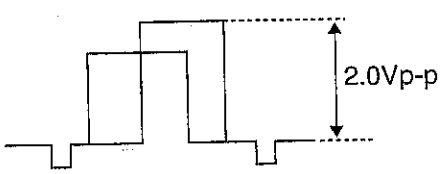


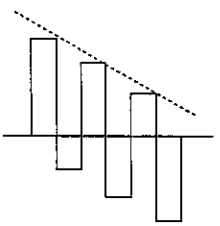
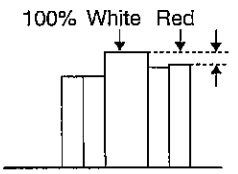
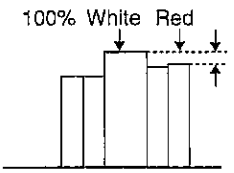
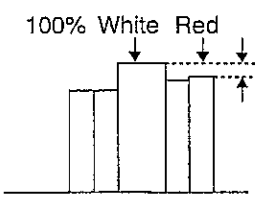
# ELECTRICAL ADJUSTMENT

**Hook up a signal generator, or a DOSV or Mac personal computer to the projector in order to feed the signals specified in the Adjusting conditions.**

| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| 1 | **EEPROM initialization** | 1. Turn on the power (make sure the lamp lights up) and warm up the unit for 15 minutes. | • Make the following settings:<br>Press SW5101 to call up the process mode and execute S2 in the SSS menu. Now the system, with the PC board not included, is initialized. Do not execute S1 because otherwise the PC board will be initialized.<br>To adjust the PC board, follow the instruction in "Adjusting the PC board". (See page 31) |
| 2 | **3.3V power supply adjustment** | 1. Turn on the power.<br>2. Connect the digital voltmeter to TP1446. | • Adjust R1649 so that the voltmeter should read 3.43 ±0.03 Vp-p. |
| 3 | **2.5V power supply adjustment** | 1. Turn on the power.<br>2. Connect the digital voltmeter to TP1447. | • Adjust R1652 so that the voltmeter should read 2.60 ±0.05 Vp-p. |
| 4 | **R drive** | 1. Feed the 100% red-only signal. Make the following choice.<br>Group : A/D<br>Subject : R-D | • Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise). |
| 5 | **B drive** | 1. Feed the 100% blue-only signal. Make the following choice.<br>Group : A/D<br>Subject : B-D | • Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise). |
| 6 | **G drive** | 1. Feed the 100% green-only signal. Make the following choice.<br>Group : A/D<br>Subject : G-D | • Using the control switches or the remote controller buttons, adjust the data so that the signal becomes bit-less (noise). |
| 7 | **RGB 1 system black level signal amplitude (odd-numbered)** | 1. Make the following choice:<br>Group : OUTPUT 1<br>Subject : G1-BLK<br>G1-GAIN<br>For red, choose the subjects R1-BLK and R1-GAIN. For blue, choose the subjects B1-BLK and B1-GAIN.<br>2. Connect the oscilloscope to<br>TP1101 for red.<br>TP1201 for green<br>TP1301 for blue | • Choose the subject G1-GAIN and adjust the signal amplitude to 3.3 ±0.1 Vp-p using the control switches or the remote controller buttons.<br>• Next,choose the subject G1-BLK and adjust the white to white level to 2.6 ±0.1V DC.<br>  <br>• Adjust the signal's amplitude and white to white level to 3.3 ± 0.1Vp-p and 2.6 ± 0.1V DC, respectively, for red and blue. |

| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| 8 | **P SIGNAL** | 1. Connect the oscilloscope to TP1701 for red.<br>TP1702 for green<br>TP1703 for blue.<br><br>2. Make the following choice:<br>Group : OUTPUT 2<br>Subject : PSIG-H<br>: PSIG-L | • Adjust the PSIG waveform to the one shown below.<br>  <br><br>• For the green and blue colours, make sure their waveforms are similar to that of the red colour.<br>• Make sure the pin stripe of every 12 dot doesn't appear at 10 steps signal of side nays.<br>(Appearing white pin stripe or black one, adjust the PSIG-H.) |
| 9 | **Panel ghost adjustment** | 1. Project the XGA60Hz ghost test pattern (black characters in bold on the halftone RGB background).<br>Group: OUTPUT3<br><br>2. GCK-PHASE adjustment<br>Make sure the setting is fixed at 8 (initial value).<br><br>3. EN-WIDTH adjustment<br>Make sure the setting is fixed at 8 (initial value).<br><br>4. ENR-PHASE adjustment (R-LCD ghost adjustment)<br><br>5. ENG-PHASE adjustment (G-LCD ghost adjustment)<br><br>6. ENB-PHASE adjustment (B-LCD ghost adjustment) | • ENR-PHASE adjustment (R-LCD ghost adjustment)<br>① Increase the setting until a ghost image (see Note) becomes visible at the left of the back characters on the R half-tone background.<br>② Lower the setting point by point until the left-hand ghost image (① above) disappears.<br>③ Further lower the setting by one point.<br>• ENG-PHASE adjustment (G-LCD ghost adjustment)<br>Adjust the G ghost image by following the same procedures described under step 1 above.<br>• ENB-PHASE adjustment (B-LCD ghost adjustment)<br>Adjust the B ghost image by following the same procedures described under step 1 above.<br>**Note:** Left-hand ghost image: Characters are shown double 12 dots left from the real characters.<br>**Reference:** This adjustment is made because the EPSON LCD panel may have 1- or 2-point differences due to lot-by-lot variations. |
| 10 | **Sample-and-hold pulse phase**<br>**RCK-PHASE**<br>**GCK-PHASE**<br>**BCK-PHASE** | 1. Feed the XGA mode 75-Hz black signal.<br>2. Make the following choice:<br>Group : OUTPUT 3<br>Subject : SH-PHASE<br>(Have the standard level at 2.)<br>Fix the RCK-, GCK- and BCK-PHASE settings all to 8. | • Using the control switches or the remote controller buttons, make sure that the "OUTPUT 3" characters are not blurry and there is no ghost image. If such blur or ghost occurs, finely adjust the setting in the range of 7~9. |

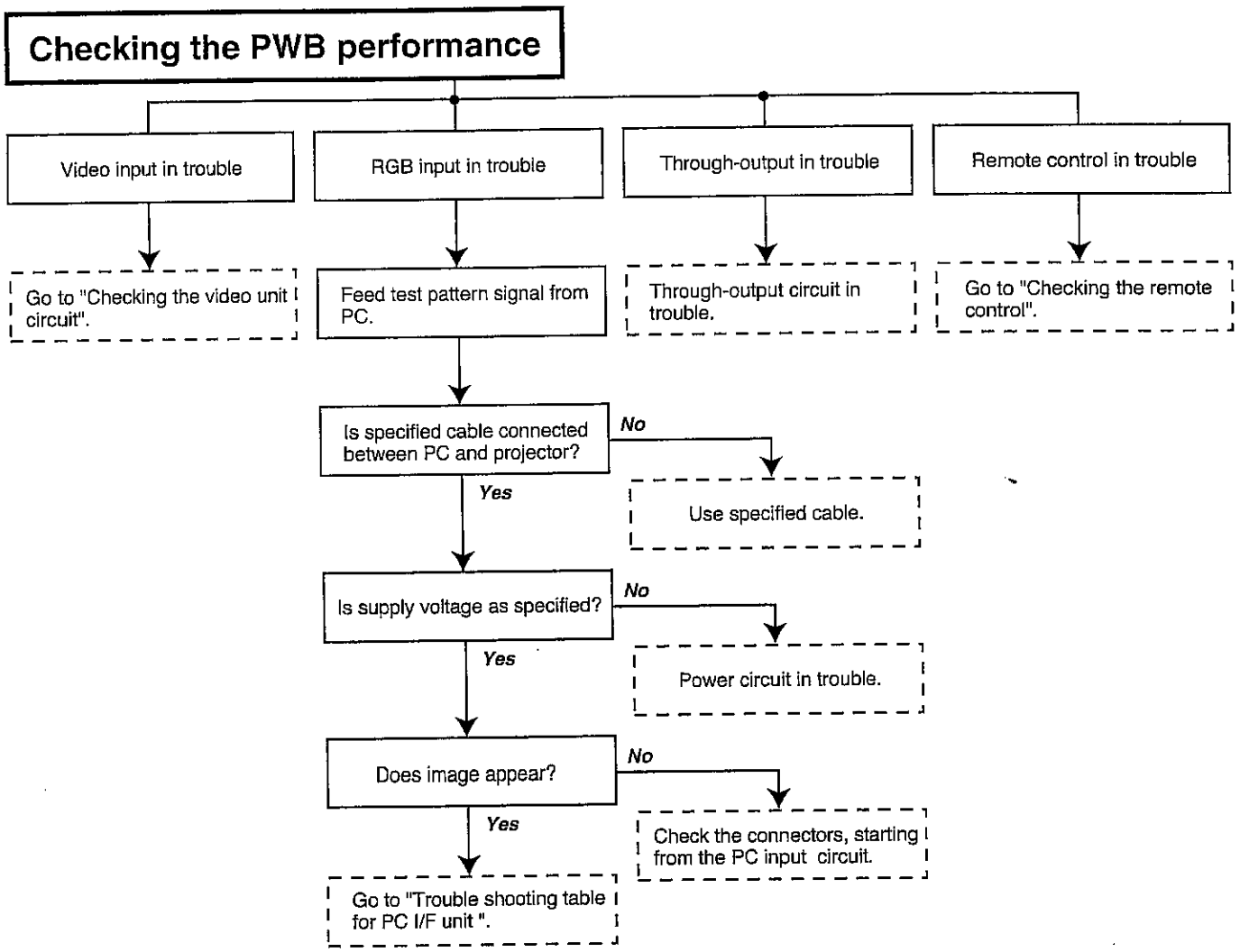
| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| 11 | **RGB counter-voltage adjustment** | 1. Feed the black-and-red (25%) stripe signal (XGA).<br>2. Make the following choice:<br>Group : OUTPUT 3<br>Subject : RC (R)<br>and<br>Group : OUTPUT 3<br>Subject : RC-INV (R) | • Using the control switches or the remote controller buttons, adjust the data in order to minimize the flicker.<br>• Make the same adjustment for BC (B), GC (G), RC-INV (B) and RC-INV (G).<br>• See if the image is equally adjusted at the center and both sides of the screen. If not, readjust the setting to have the image equal at right and left. |
| 12 | **RGB gradation regeneration adjustment** | 1. Feed the green-only SMPTE pattern signal (XGA).<br>Group : OUTPUT 1<br>Subject : G1-BLK | • Adjust the G-BLK data until the gradation of the portion ① (95% and 100% white) shown below can be slightly recognized. Make sure also that the gradation of the portion ② (0% and 5% black) is visible.<br>  |
| 13 | **RGB white balance** | 1. Feed the 32-step gray scale signal (XGA).<br>Group : OUTPUT 1<br>Subject : R1-BLK (R)<br>B1-BLK (B) | • Choose the subjects R1-BLK and B1-BLK and adjust the black balance of the gradation. |
| 14 | **Horizontal center** | 1. Feed the NTSC monoscope pattern signal.<br>2. Group : VIDEO 2<br>Subject : N358-DLY (4)<br>N443-DLY (0)<br>PAL-DLY (3)<br>SECAM-DLY (0)<br>Make sure the settings are as above.<br>3. Group : VIDEO 1<br>Subject : NTSC-H | • Using the control switches or the remote controller buttons, adjust the data to have the same overscan. |
| 15 | **Video picture adjustment** | 1. Feed the split colour bar signal.<br>Group : VIDEO 1<br>Subject : PICTURE<br>2. Connect the oscilloscope between pin (2) of P801 and GND. | • Using the control switches or the remote controller buttons, adjust the black-to-white (100%) level difference to 2.0 ±0.02 Vp-p.<br>  |

| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| 16 | **Video brightness adjustment** | 1. Feed the baseband (split colour bar) signal. (The ON-AIR signal is not accepted because of its too much noise.)<br>Group : VIDEO 2<br>Subject : VROS/VGOS/VBOS<br>2. Press the control switch or the remote control's mute button (to set the gamma correction to the process setting). | • Using the control switches or the remote controller buttons, adjust the setting until the black signal becomes bit-less. |
| 17 | **Video AGC** | 1. Feed the split colour bar signal.<br>Group : VIDEO 1<br>Subject : AGC | • Using the control switches or the remote controller buttons, adjust the setting until the white signal becomes bit-less. |
| 18 | **Tint** | 1. Feed the split colour bar signal.<br>Group : VIDEO 1<br>Subject : TINT<br>2. Connect the oscilloscope to pin (4) of P801. | • Using the control switches or the remote controller buttons, adjust the data to have the -(B-Y) waveform downhill straight.<br>  <br>• After adjusting, adjust the value of TINT up 3 point. |
| 19 | **NTSC colour saturation level** | 1. Feed the split colour bar signal.<br>Group : VIDEO 1<br>Subject : N-COLOR<br>2. Connect the oscilloscope to pin (1) of P801. | • Using the control switches or the remote controller buttons, adjust the difference between the 100% white portion and the red portion to 0.00 ±0.05 Vp-p. (same as 100% white)<br>  |
| 20 | **PAL colour saturation level** | 1. Feed the PAL colour bar signal.<br>Group : VIDEO 1<br>Subject : P-COLOR<br>2. Connect the oscilloscope to pin (1) of P801. | • Using the control switches or the remote controller buttons, adjust the difference between the 100% white portion and the red portion to 0.2 ±0.05 Vp-p.<br>  |
| 21 | **SECAM colour saturation level** | 1. Feed the SECAM colour bar signal.<br>Group : VIDEO 1<br>Subject : S-COLOR<br>2. Connect the oscilloscope to pin (1) of P801. | • Using the control switches or the remote controller buttons, adjust the data to have a level difference of 0.2 ±0.05 Vp-p between the 100% white portion and the red portion.<br>  |

| No. | Adjusting point | Adjusting conditions | Adjusting procedure |
|---|---|---|---|
| 22 | **Video input panel signal amplitude adjustment** | 1. Feed the NTSC 10-step signal.<br>2. Select the following group and subject.<br>Group: VIDEO2<br>Subject: R1-GAIN<br>B1-GAIN<br>3. Connect the oscilloscope to TP1101 (R) and TP1201 (G).<br>4. For the blue colour, connect the oscilloscope to TP1301 (B) and TP1201 (G). | • Select R1-GAIN and adjust the setting so that the R and G signals have the same amplitude.<br>• For the blue colour, adjust the setting the same way. |
| 23 | **Video white balance** | 1. Feed the NTSC monoscope pattern signal<br>Group : VIDEO 2<br>Subject : R1-BLK<br>B1-BLK | • Using the control switches or the remote controller buttons, adjust so that the entire screen looks evenly colourless. |
| 24 | **DTV white balance** | 1. Feed the monoscope pattern signal.<br>2. Group: DTV<br>Subject: CR-OFFSET<br>CB-OFFSET | • Using the control switches or the remote controller buttons, adjust so that the entire screen looks evenly colourless. |
| 25 | **Setup** | 1. Group: VIDEO1<br>Subject: SET UP B<br>SET UP C | • Make sure the settings are 11 for SET UP B and 2 for SET UP C. |
| 26 | **Automatic colour correction** | 1. Using the colour correction system (ccdc), apply automatic colour correction. | • Make sure there is no noticeable colour irregularity left on the screen. |
| 27 | **Colour system performance check** | 1. Receive the colour bar signal. | • In the process mode and select L1. Check the colour and tint. |
| 28 | **Video system performance check** | 1. Receive the monoscope pattern signal. | • In the process mode and select L2. Check the picture, brightness and sharpness. |
| 29 | **Audio system performance check** | | • In the process mode nad select L3. Check the bass, treble. |

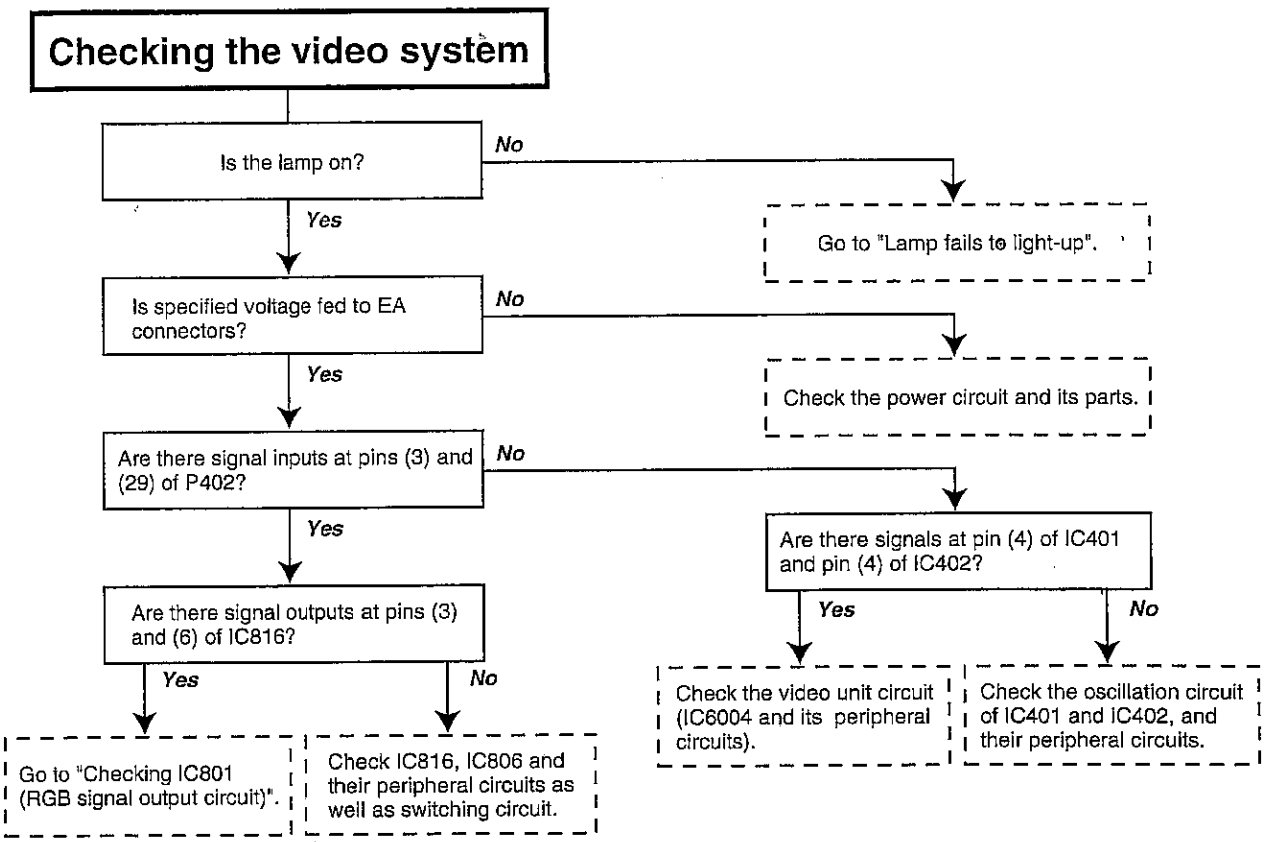
<table>
<tr><th>No.</th><th>Adjusting point</th><th>Adjusting conditions</th><th>Adjusting procedure</th></tr>
<tr><td>30</td><td>RGB performance check</td><td>1. Receive the RGB signal.</td><td>• In the process mode and select L4. Check the picture, brightness, red, blue, clock, phase, horizontal position, and vertical position.</td></tr>
<tr><td>31</td><td>Off-timer performance check</td><td></td><td>• In the process mode and select OFF. Make sure that the off-timer starts with "5" (minutes), counts down each minute in 1 second, and turns off the set at "0".</td></tr>
<tr><td>32</td><td>Thermistor performance check</td><td>1. Heat the thermistor using a dryer.</td><td>• Make sure the "TEMP" is displayed.</td></tr>
<tr><td>33</td><td>Automatic synchronization</td><td>1. Receive the PHASE check pattern signal.</td><td>• Call the VGA/SVGA/XGA/SXGA mode and make sure that the clock, phase, horizontal and vertical positions can be automatically adjusted.</td></tr>
<tr><td>34</td><td>Keystone correction performance check</td><td></td><td>• Make sure the keystone correction functions well.</td></tr>
<tr><td>35</td><td>Factory settings</td><td></td><td>• Make the following settings.
<table>
<tr><th>Process adjustment</th><th>Remote controller setting</th></tr>
<tr><td>S3</td><td>"Factory setting 3"(XG-C40XE)</td></tr>
<tr><td>S4</td><td>"Factory setting 4"(XG-C40XU)</td></tr>
</table></td></tr>
</table>

# TROUBLE SHOOTING TABLE

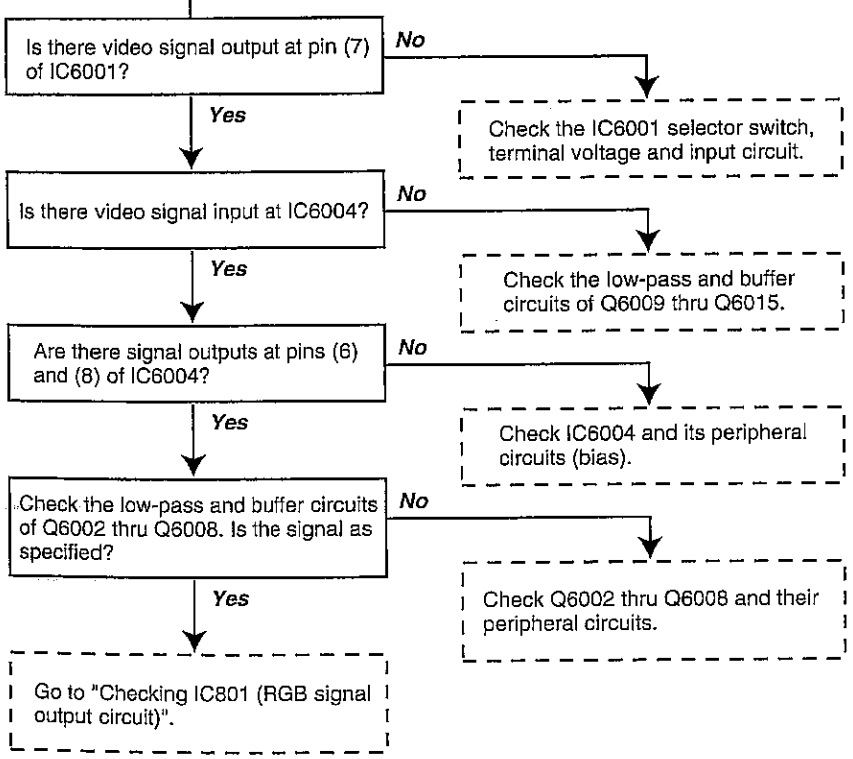

Checking the PWB performance
Video input in trouble
RGB input in trouble
Through-output in trouble
Remote control in trouble
Go to "Checking the video unit circuit".
Feed test pattern signal from PC.
Through-output circuit in trouble.
Go to "Checking the remote control".
Is specified cable connected between PC and projector?
No
Use specified cable.
Yes
Is supply voltage as specified?
No
Power circuit in trouble.
Yes
Does image appear?
No
Check the connectors, starting from the PC input circuit.
Yes
Go to "Trouble shooting table for PC I/F unit ".

# TROUBLE SHOOTING TABLE (Continued)

## Checking the video system

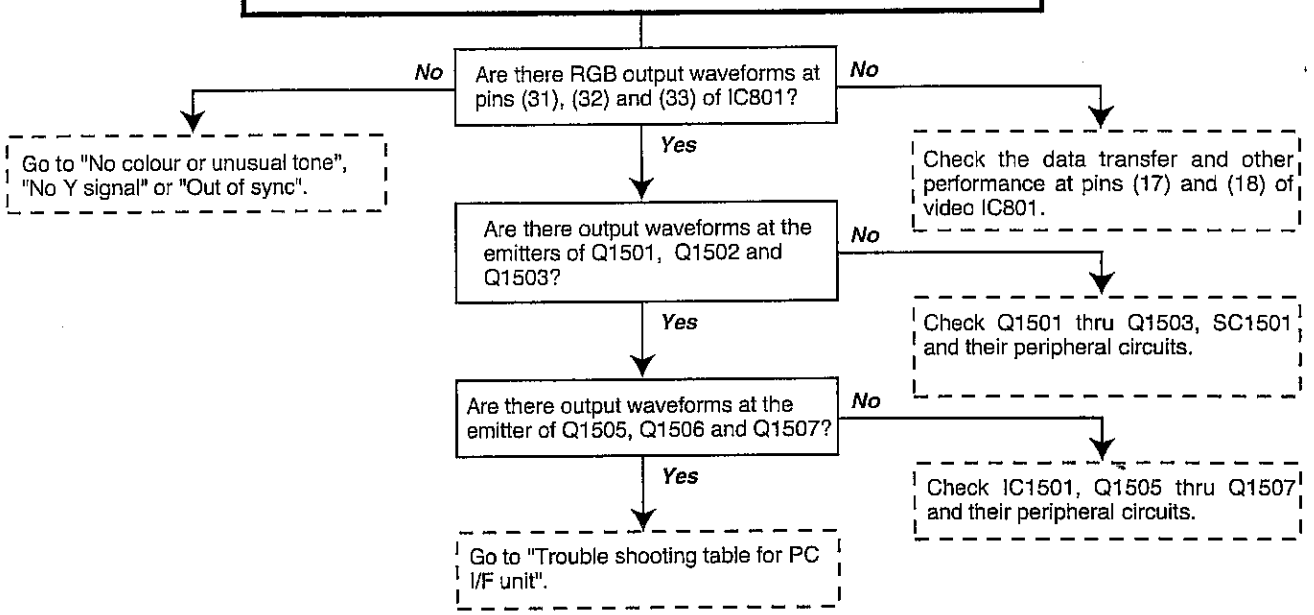

Is the lamp on?
No
Yes
Go to "Lamp fails to light-up".
Is specified voltage fed to EA connectors?
No
Yes
Check the power circuit and its parts.
Are there signal inputs at pins (3) and (29) of P402?
No
Yes
Are there signals at pin (4) of IC401 and pin (4) of IC402?
Yes
No
Are there signal outputs at pins (3) and (6) of IC816?
Yes
No
Check the video unit circuit (IC6004 and its peripheral circuits).
Check the oscillation circuit of IC401 and IC402, and their peripheral circuits.
Go to "Checking IC801 (RGB signal output circuit)".
Check IC816, IC806 and their peripheral circuits as well as switching circuit.

## Checking the video unit circuit

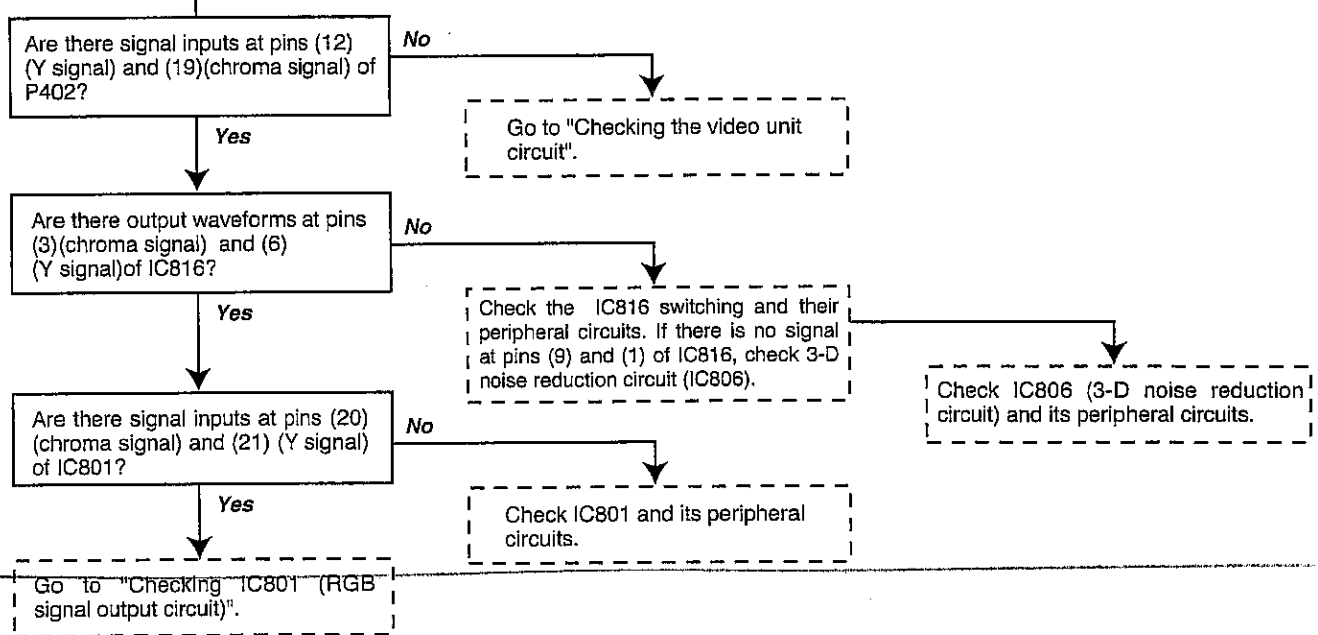

Is there video signal output at pin (7) of IC6001?
No
Yes
Check the IC6001 selector switch, terminal voltage and input circuit.
Is there video signal input at IC6004?
No
Yes
Check the low-pass and buffer circuits of Q6009 thru Q6015.
Are there signal outputs at pins (6) and (8) of IC6004?
No
Yes
Check IC6004 and its peripheral circuits (bias).
Check the low-pass and buffer circuits of Q6002 thru Q6008. Is the signal as specified?
No
Yes
Check Q6002 thru Q6008 and their peripheral circuits.
Go to "Checking IC801 (RGB signal output circuit)".

# TROUBLE SHOOTING TABLE (Continued)

## Checking IC801 (RGB signal output circuit)

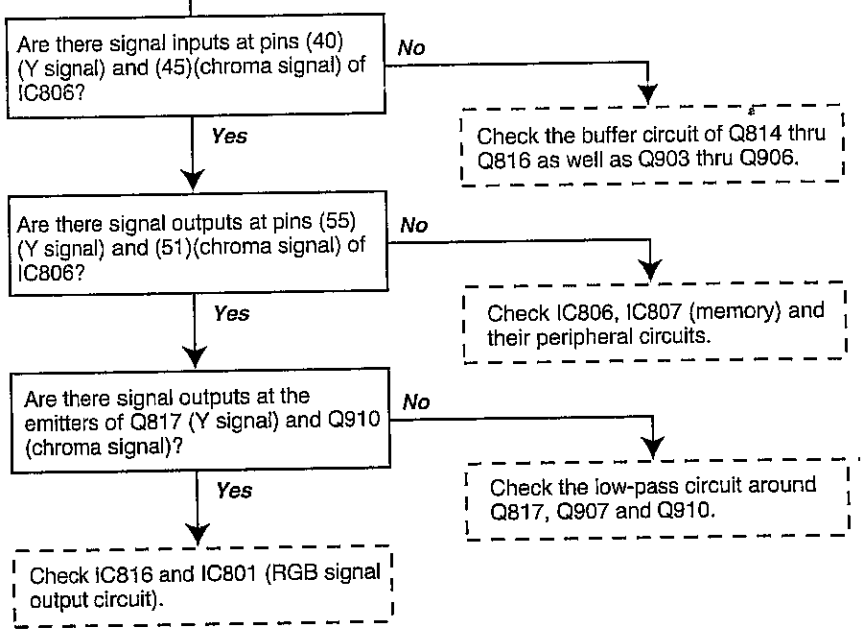

Are there RGB output waveforms at pins (31), (32) and (33) of IC801?
No
Go to "No colour or unusual tone", "No Y signal" or "Out of sync".
No
Check the data transfer and other performance at pins (17) and (18) of video IC801.
Yes
Are there output waveforms at the emitters of Q1501, Q1502 and Q1503?
No
Check Q1501 thru Q1503, SC1501 and their peripheral circuits.
Yes
Are there output waveforms at the emitter of Q1505, Q1506 and Q1507?
No
Check IC1501, Q1505 thru Q1507 and their peripheral circuits.
Yes
Go to "Trouble shooting table for PC I/F unit".

## Checking the chroma and Y signals of IC801 (RGB signal output)

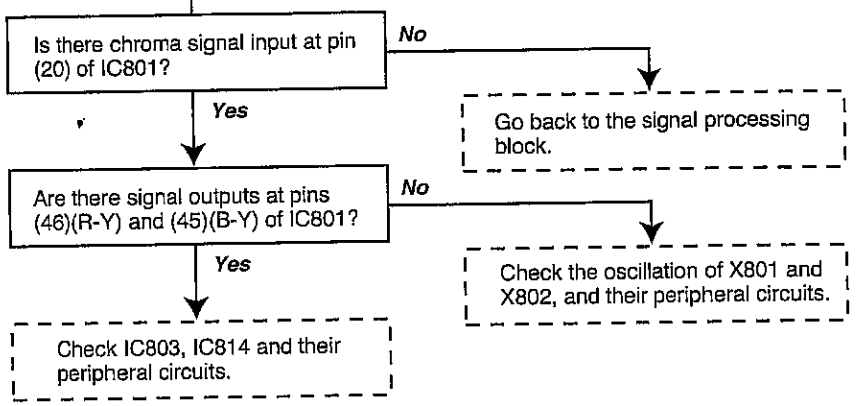

Are there signal inputs at pins (12) (Y signal) and (19)(chroma signal) of P402?
No
Go to "Checking the video unit circuit".
Yes
Are there output waveforms at pins (3)(chroma signal) and (6) (Y signal)of IC816?
No
Check the IC816 switching and their peripheral circuits. If there is no signal at pins (9) and (1) of IC816, check 3-D noise reduction circuit (IC806).
Check IC806 (3-D noise reduction circuit) and its peripheral circuits.
Yes
Are there signal inputs at pins (20) (chroma signal) and (21) (Y signal) of IC801?
No
Check IC801 and its peripheral circuits.
Yes
Go to "Checking IC801 (RGB signal output circuit)".

# TROUBLE SHOOTING TABLE (Continued)

## Checking IC806 (3-D noise reduction circuit) and its peripheral circuits

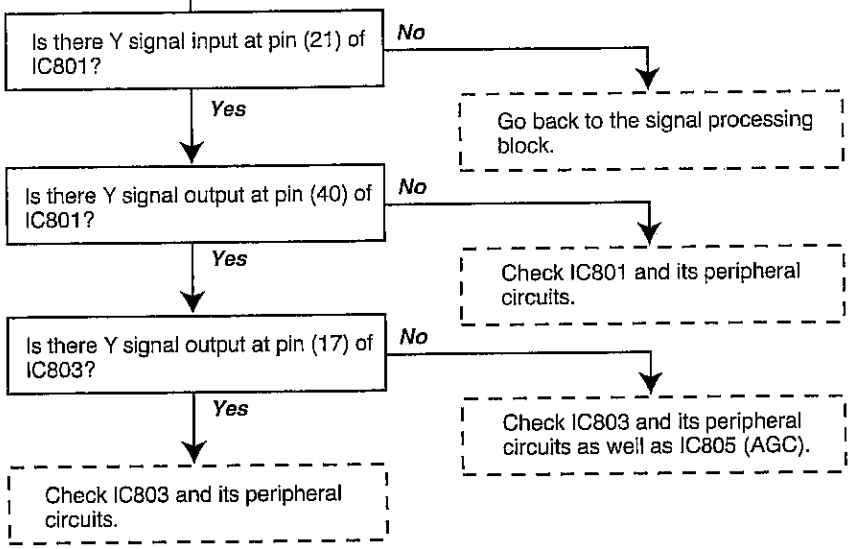

Are there signal inputs at pins (40) (Y signal) and (45)(chroma signal) of IC806?
No
Check the buffer circuit of Q814 thru Q816 as well as Q903 thru Q906.
Yes
Are there signal outputs at pins (55) (Y signal) and (51)(chroma signal) of IC806?
No
Check IC806, IC807 (memory) and their peripheral circuits.
Yes
Are there signal outputs at the emitters of Q817 (Y signal) and Q910 (chroma signal)?
No
Check the low-pass circuit around Q817, Q907 and Q910.
Yes
Check IC816 and IC801 (RGB signal output circuit).

## No colour or unusual tone (NTSC, PAL)

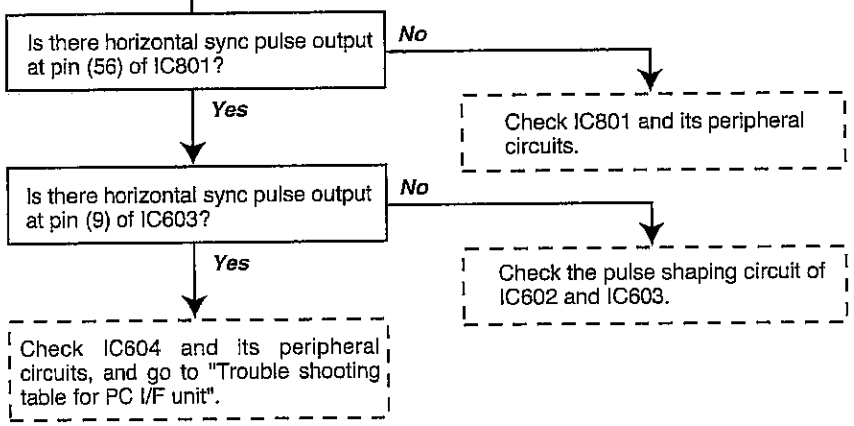

Is there chroma signal input at pin (20) of IC801?
No
Go back to the signal processing block.
Yes
Are there signal outputs at pins (46)(R-Y) and (45)(B-Y) of IC801?
No
Check the oscillation of X801 and X802, and their peripheral circuits.
Yes
Check IC803, IC814 and their peripheral circuits.

# TROUBLE SHOOTING TABLE (Continued)

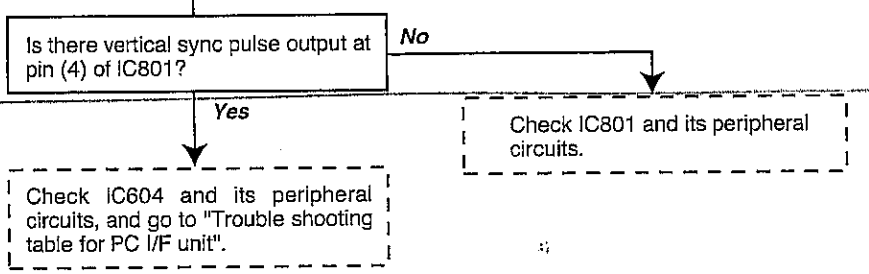
## No or unusual Y signal


Is there Y signal input at pin (21) of IC801?
No
Yes
Go back to the signal processing block.
Is there Y signal output at pin (40) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Is there Y signal output at pin (17) of IC803?
No
Yes
Check IC803 and its peripheral circuits as well as IC805 (AGC).
Check IC803 and its peripheral circuits.

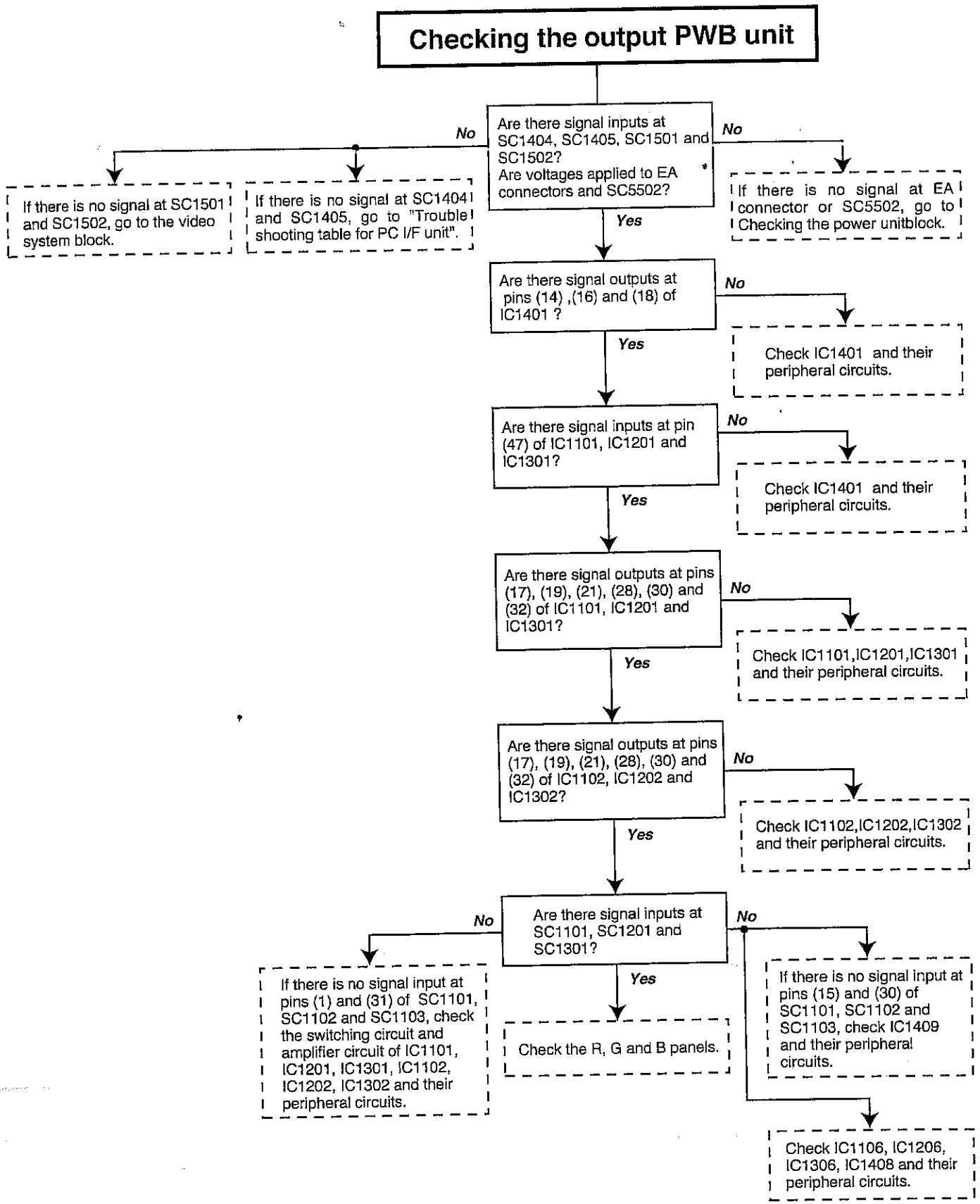
## No or unusual horizontal sync


Is there horizontal sync pulse output at pin (56) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Is there horizontal sync pulse output at pin (9) of IC603?
No
Yes
Check the pulse shaping circuit of IC602 and IC603.
Check IC604 and its peripheral circuits, and go to "Trouble shooting table for PC I/F unit".

## No or unusual vertical sync

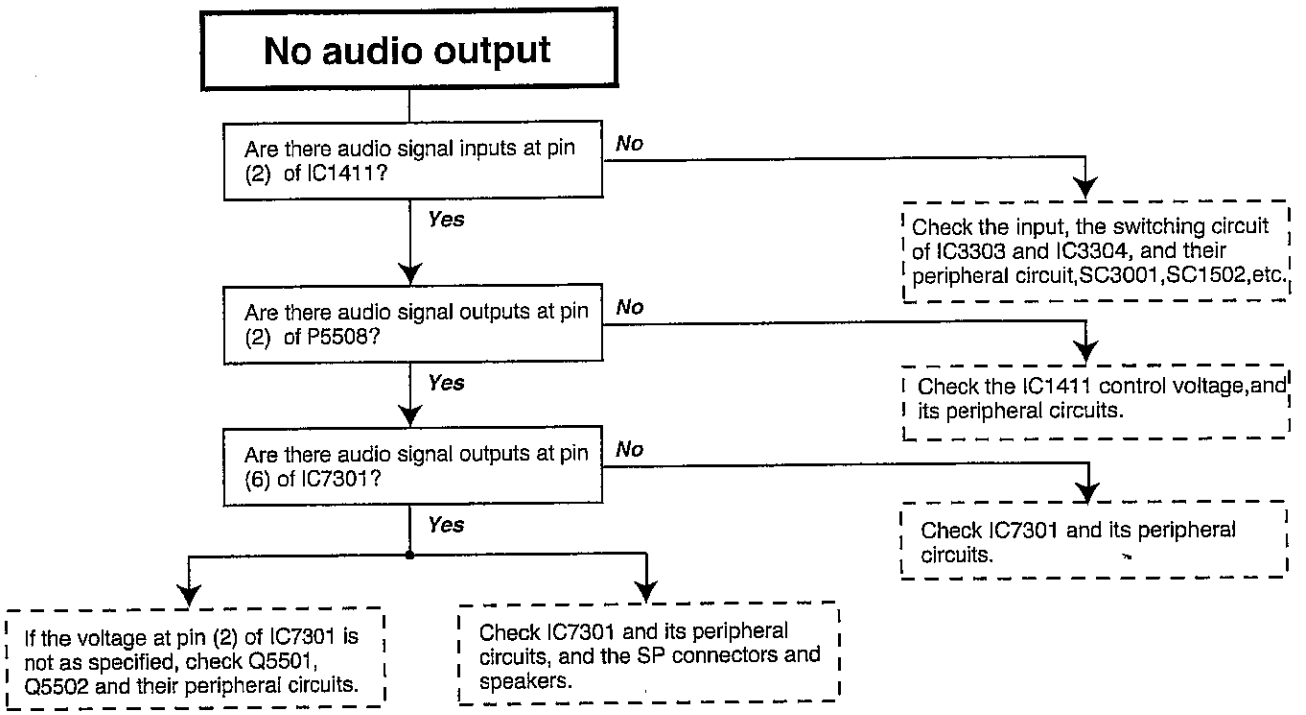

Is there vertical sync pulse output at pin (4) of IC801?
No
Yes
Check IC801 and its peripheral circuits.
Check IC604 and its peripheral circuits, and go to "Trouble shooting table for PC I/F unit".

# TROUBLE SHOOTING TABLE (Continued)

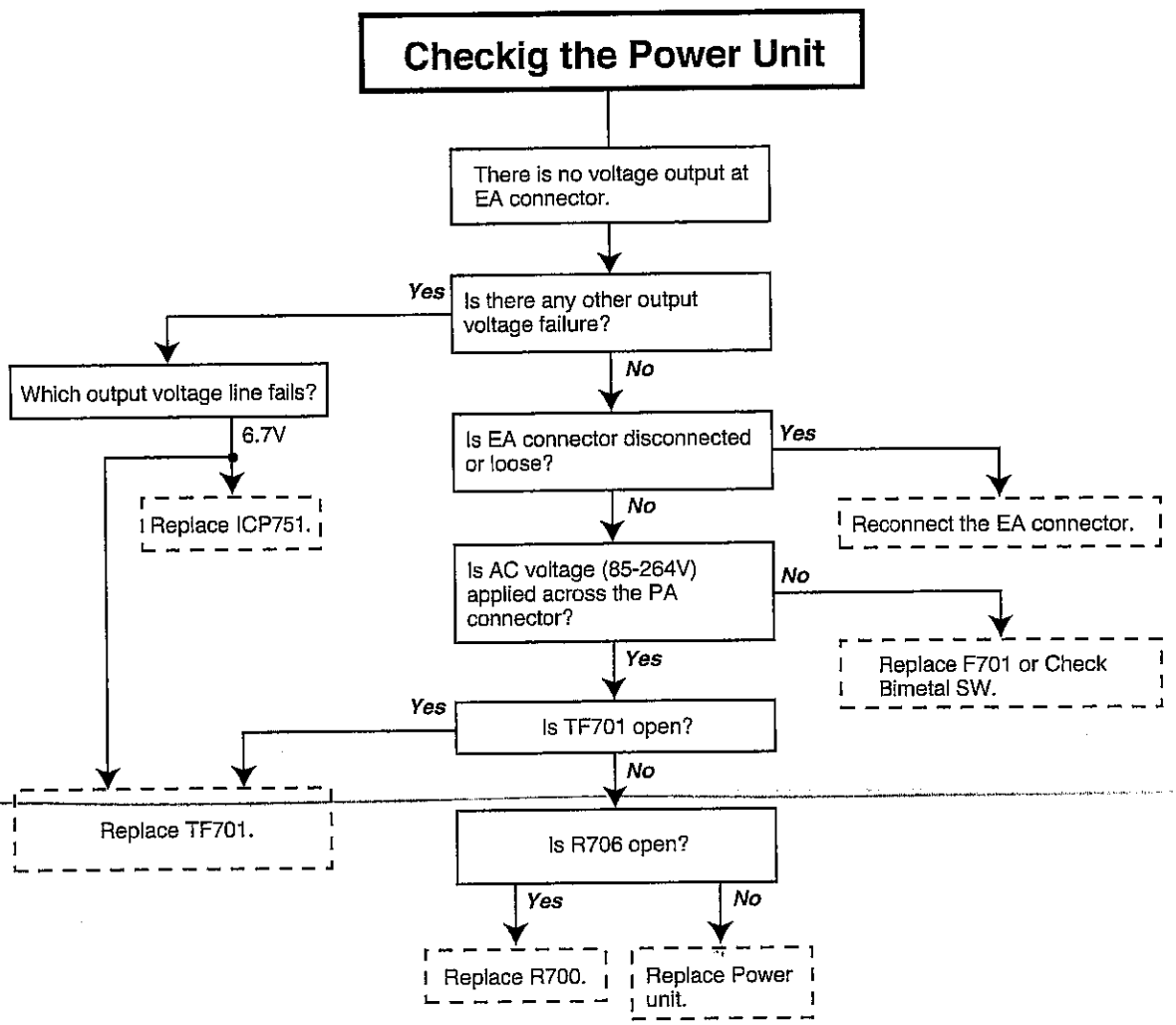

Checking the output PWB unit
Are there signal inputs at SC1404, SC1405, SC1501 and SC1502? Are voltages applied to EA connectors and SC5502?
No
If there is no signal at SC1501 and SC1502, go to the video system block.
If there is no signal at SC1404 and SC1405, go to "Trouble shooting table for PC I/F unit".
No
If there is no signal at EA connector or SC5502, go to Checking the power unitblock.
Yes
Are there signal outputs at pins (14) ,(16) and (18) of IC1401 ?
No
Check IC1401 and their peripheral circuits.
Yes
Are there signal inputs at pin (47) of IC1101, IC1201 and IC1301?
No
Check IC1401 and their peripheral circuits.
Yes
Are there signal outputs at pins (17), (19), (21), (28), (30) and (32) of IC1101, IC1201 and IC1301?
No
Check IC1101,IC1201,IC1301 and their peripheral circuits.
Yes
Are there signal outputs at pins (17), (19), (21), (28), (30) and (32) of IC1102, IC1202 and IC1302?
No
Check IC1102,IC1202,IC1302 and their peripheral circuits.
Yes
Are there signal inputs at SC1101, SC1201 and SC1301?
No
If there is no signal input at pins (1) and (31) of SC1101, SC1102 and SC1103, check the switching circuit and amplifier circuit of IC1101, IC1201, IC1301, IC1102, IC1202, IC1302 and their peripheral circuits.
Yes
Check the R, G and B panels.
No
If there is no signal input at pins (15) and (30) of SC1101, SC1102 and SC1103, check IC1409 and their peripheral circuits.
Check IC1106, IC1206, IC1306, IC1408 and their peripheral circuits.

# TROUBLE SHOOTING TABLE (Continued)

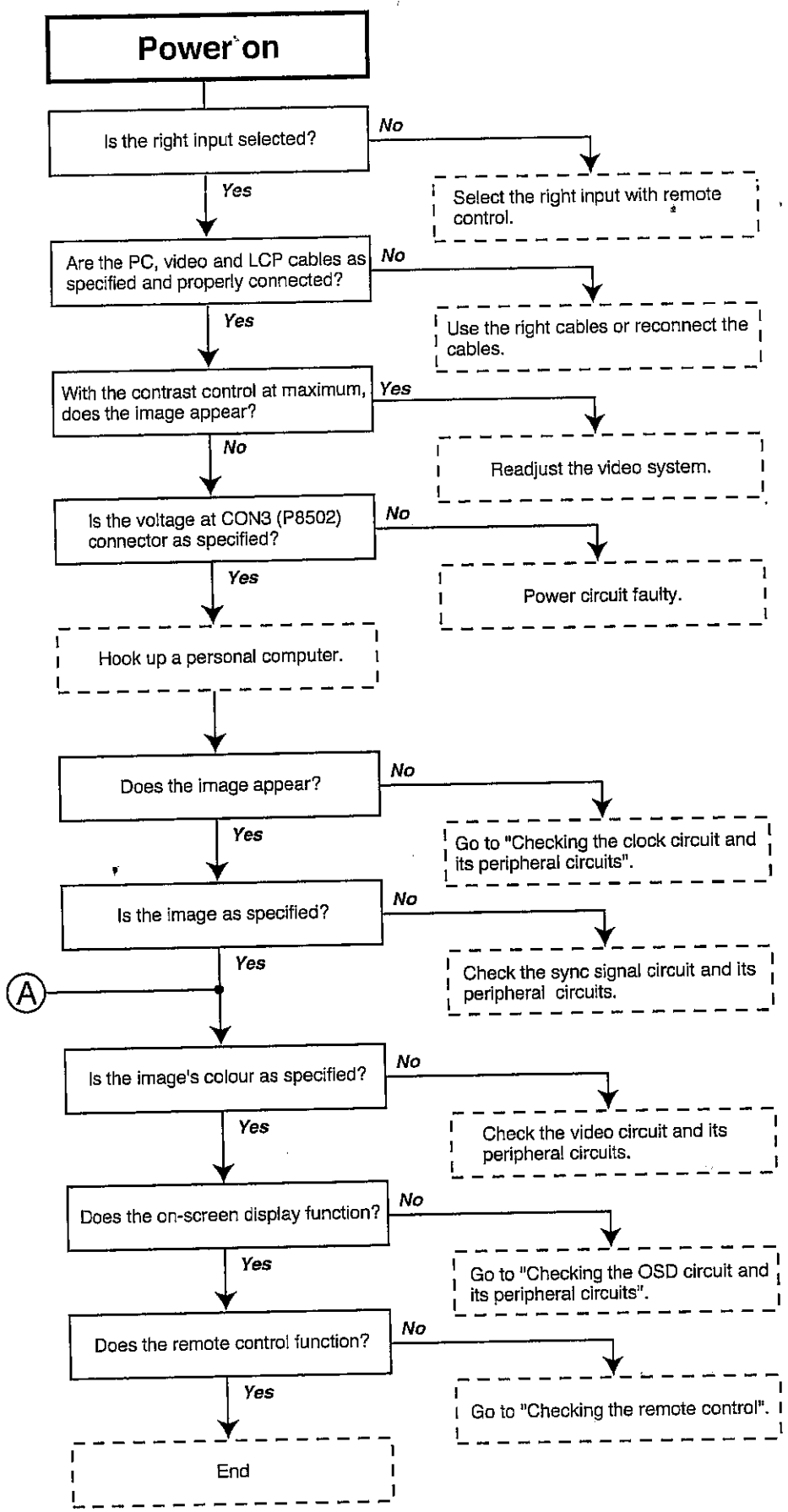
## No audio output


Are there audio signal inputs at pin (2) of IC1411?
No
Check the input, the switching circuit of IC3303 and IC3304, and their peripheral circuit,SC3001,SC1502,etc.
Yes
Are there audio signal outputs at pin (2) of P5508?
No
Check the IC1411 control voltage,and its peripheral circuits.
Yes
Are there audio signal outputs at pin (6) of IC7301?
No
Check IC7301 and its peripheral circuits.
Yes
If the voltage at pin (2) of IC7301 is not as specified, check Q5501, Q5502 and their peripheral circuits.
Check IC7301 and its peripheral circuits, and the SP connectors and speakers.

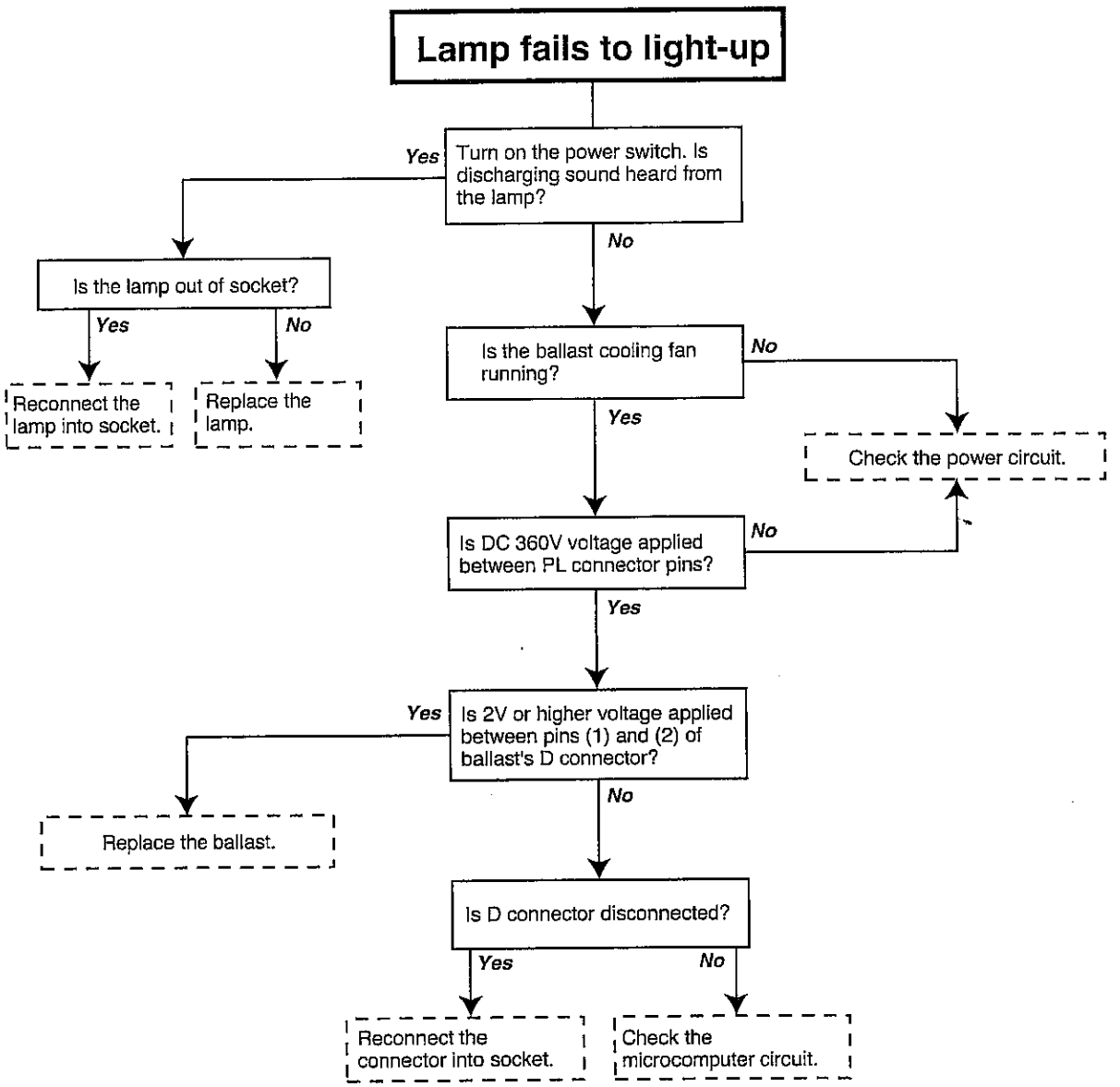
## Checkig the Power Unit



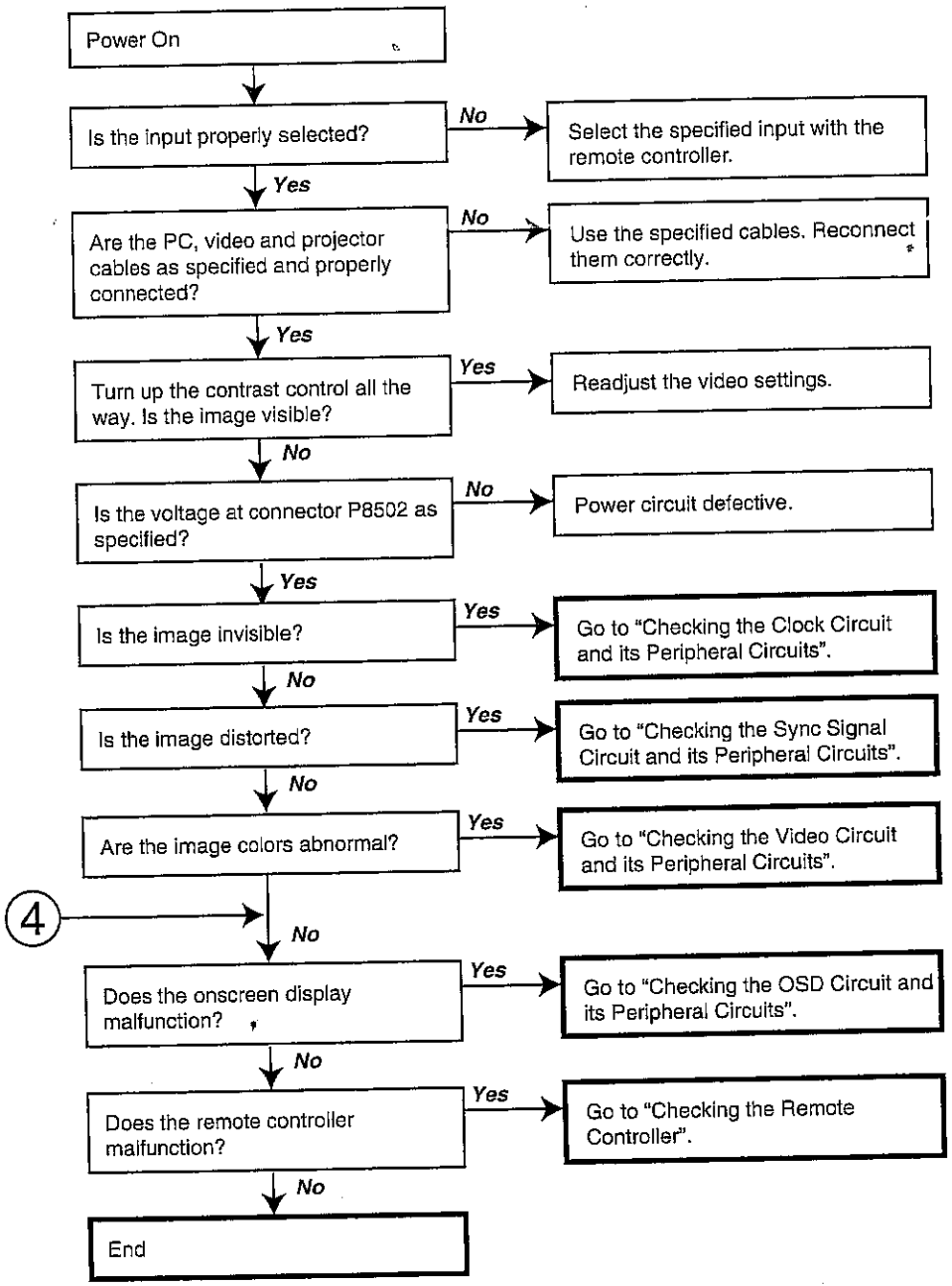
# TROUBLE SHOOTING TABLE (Continued)



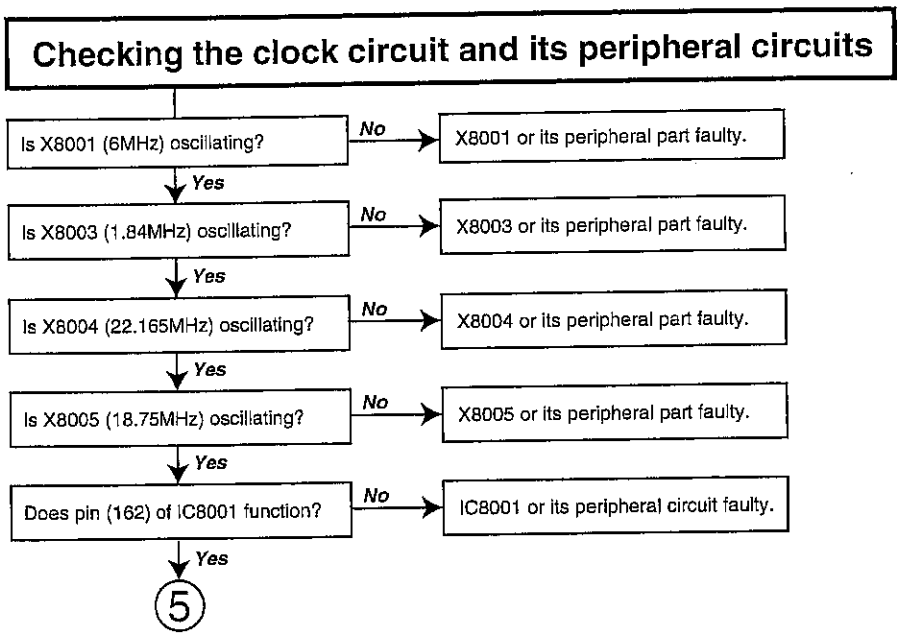
# TROUBLE SHOOTING TABLE (Continued)



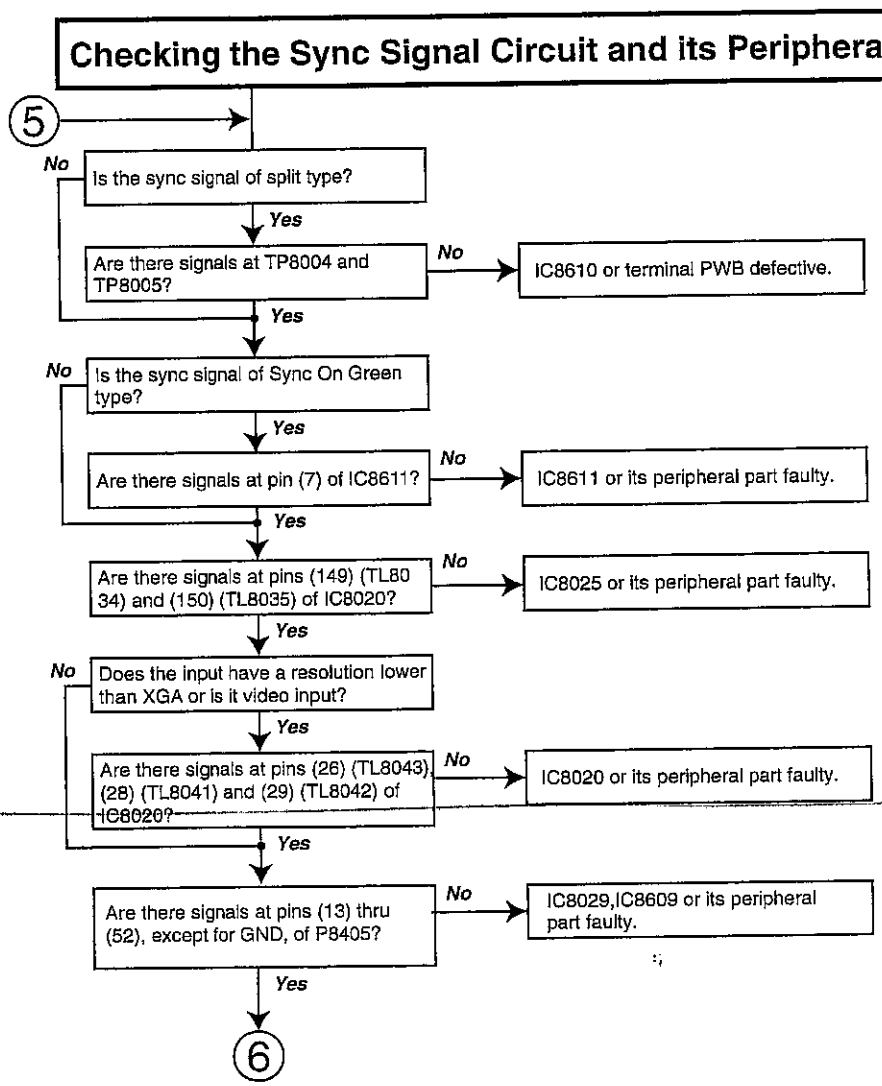
# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-1



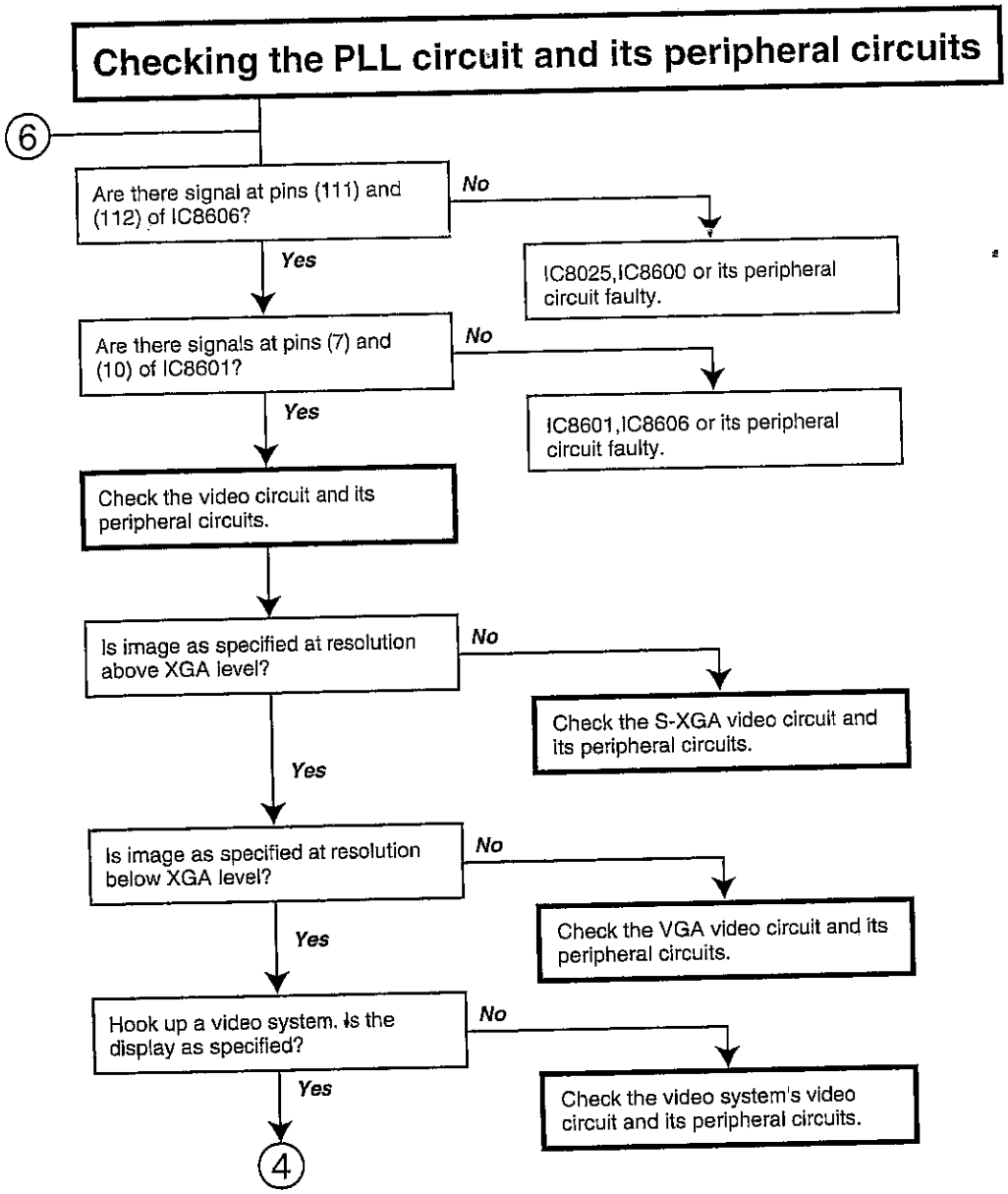
# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-2



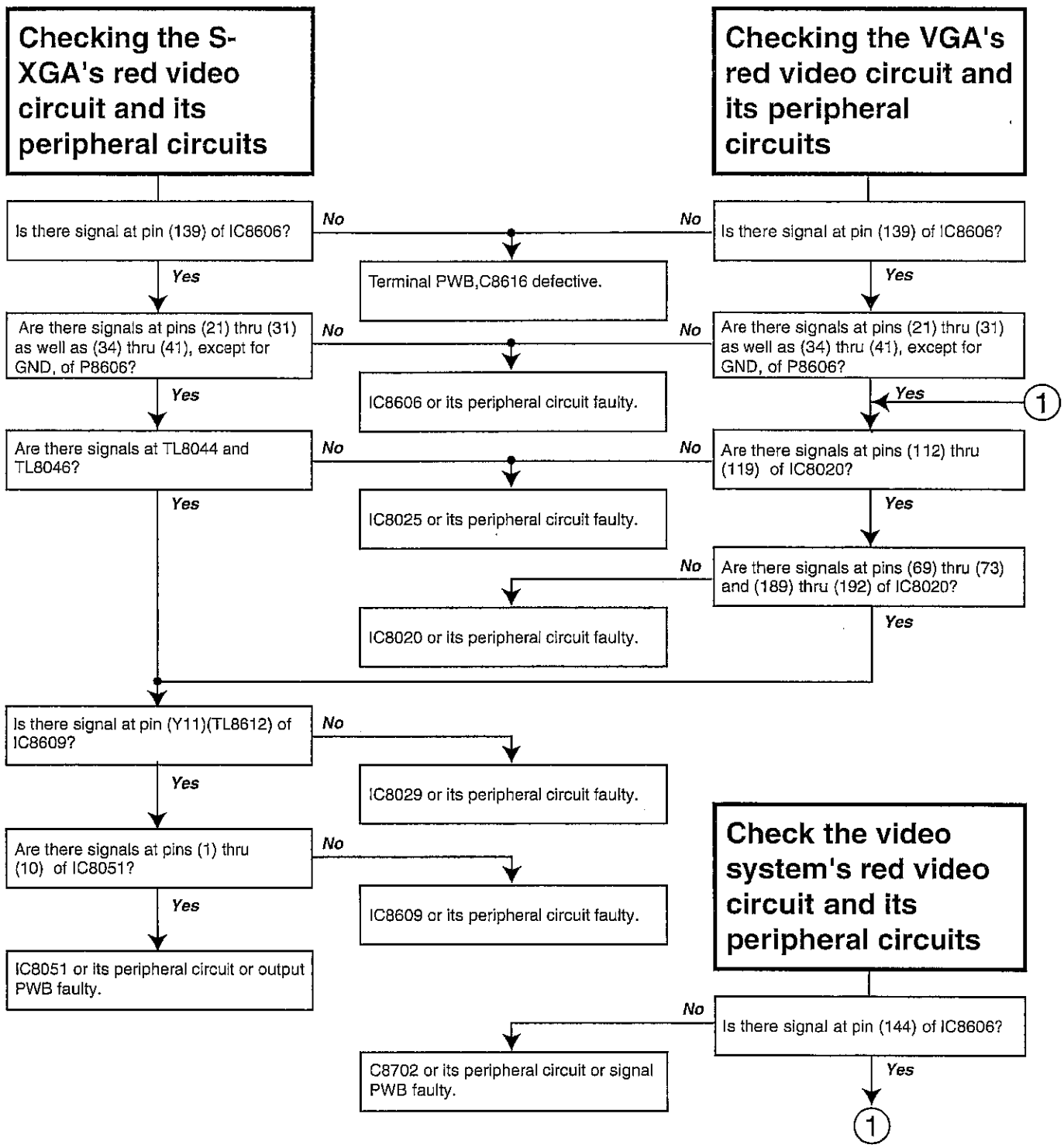

# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-3


Checking the Sync Signal Circuit and its Peripheral Circuits
5
No
Is the sync signal of split type?
Yes
Are there signals at TP8004 and TP8005?
No
IC8610 or terminal PWB defective.
Yes
No
Is the sync signal of Sync On Green type?
Yes
Are there signals at pin (7) of IC8611?
No
IC8611 or its peripheral part faulty.
Yes
Are there signals at pins (149) (TL8034) and (150) (TL8035) of IC8020?
No
IC8025 or its peripheral part faulty.
Yes
No
Does the input have a resolution lower than XGA or is it video input?
Yes
Are there signals at pins (26) (TL8043), (28) (TL8041) and (29) (TL8042) of IC8020?
No
IC8020 or its peripheral part faulty.
Yes
Are there signals at pins (13) thru (52), except for GND, of P8405?
No
IC8029,IC8609 or its peripheral part faulty.
Yes
6

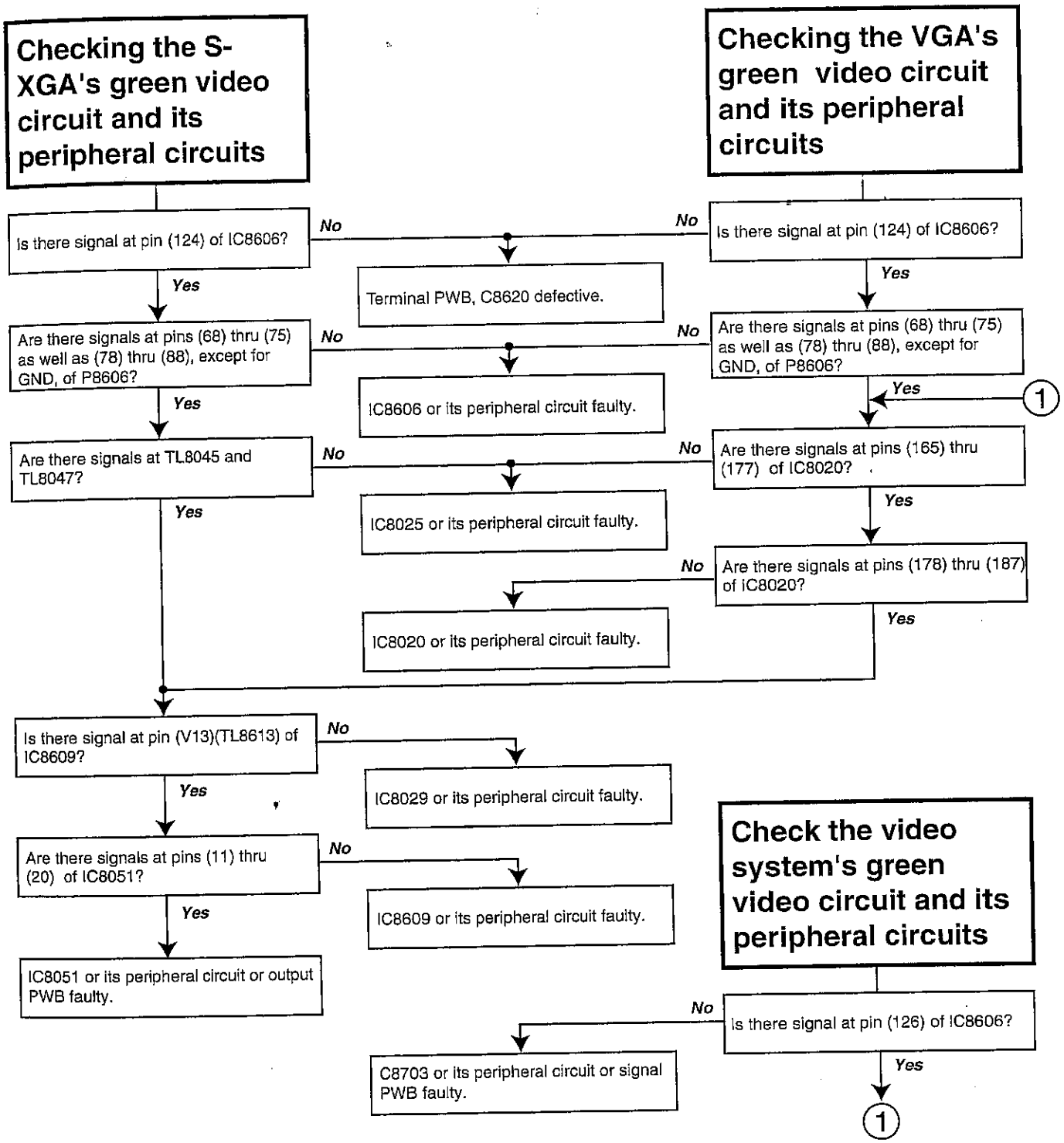
# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-4


Checking the PLL circuit and its peripheral circuits
6
Are there signal at pins (111) and (112) of IC8606?
No
IC8025,IC8600 or its peripheral circuit faulty.
Yes
Are there signals at pins (7) and (10) of IC8601?
No
IC8601,IC8606 or its peripheral circuit faulty.
Yes
Check the video circuit and its peripheral circuits.
Is image as specified at resolution above XGA level?
No
Check the S-XGA video circuit and its peripheral circuits.
Yes
Is image as specified at resolution below XGA level?
No
Check the VGA video circuit and its peripheral circuits.
Yes
Hook up a video system. Is the display as specified?
No
Check the video system's video circuit and its peripheral circuits.
Yes
4

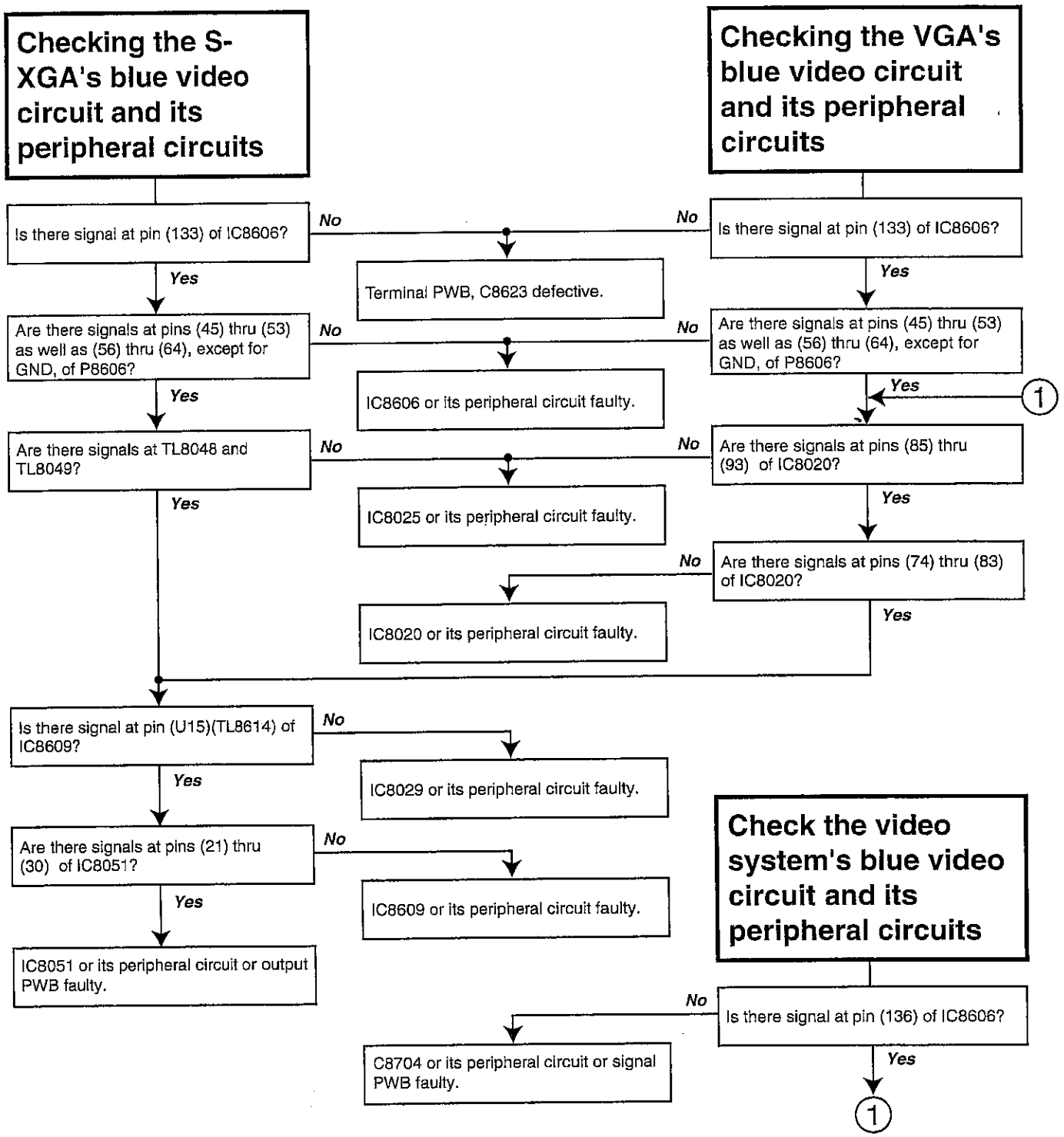
# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-5


Checking the S-XGA's red video circuit and its peripheral circuits
Is there signal at pin (139) of IC8606?
No
Terminal PWB,C8616 defective.
Yes
Are there signals at pins (21) thru (31) as well as (34) thru (41), except for GND, of P8606?
No
IC8606 or its peripheral circuit faulty.
Yes
Are there signals at TL8044 and TL8046?
No
IC8025 or its peripheral circuit faulty.
Yes
Is there signal at pin (Y11)(TL8612) of IC8609?
No
IC8029 or its peripheral circuit faulty.
Yes
Are there signals at pins (1) thru (10) of IC8051?
No
IC8609 or its peripheral circuit faulty.
Yes
IC8051 or its peripheral circuit or output PWB faulty.
Checking the VGA's red video circuit and its peripheral circuits
Is there signal at pin (139) of IC8606?
No
Yes
Are there signals at pins (21) thru (31) as well as (34) thru (41), except for GND, of P8606?
No
Yes
1
Are there signals at pins (112) thru (119) of IC8020?
No
Yes
Are there signals at pins (69) thru (73) and (189) thru (192) of IC8020?
No
IC8020 or its peripheral circuit faulty.
Yes
Check the video system's red video circuit and its peripheral circuits
Is there signal at pin (144) of IC8606?
No
C8702 or its peripheral circuit or signal PWB faulty.
Yes
1

# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-6

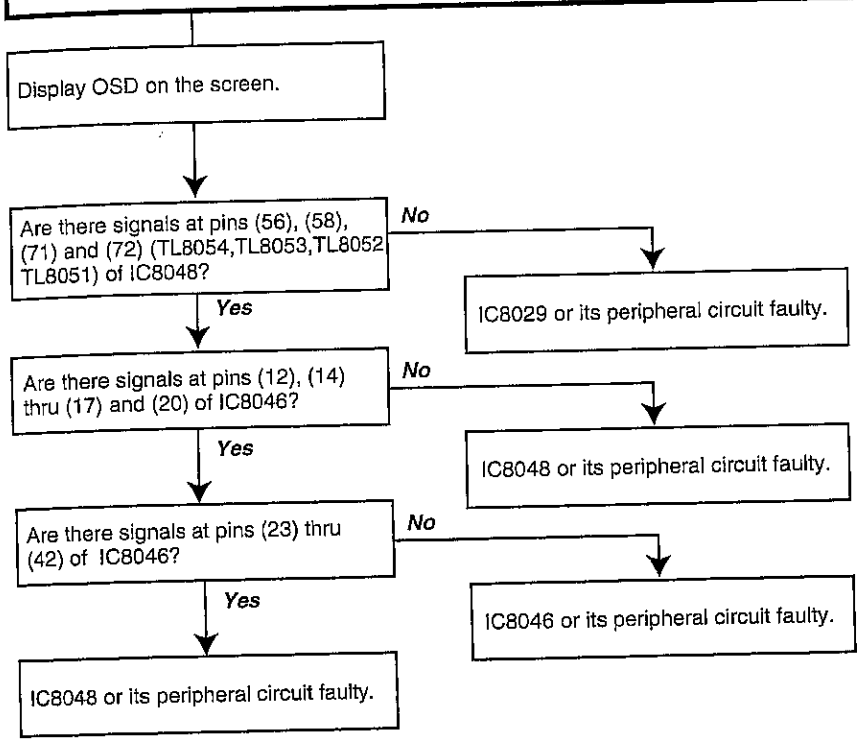

Checking the S-XGA's green video circuit and its peripheral circuits
Is there signal at pin (124) of IC8606?
No
Terminal PWB, C8620 defective.
Yes
Are there signals at pins (68) thru (75) as well as (78) thru (88), except for GND, of P8606?
No
IC8606 or its peripheral circuit faulty.
Yes
Are there signals at TL8045 and TL8047?
No
IC8025 or its peripheral circuit faulty.
Yes
Is there signal at pin (V13)(TL8613) of IC8609?
No
IC8029 or its peripheral circuit faulty.
Yes
Are there signals at pins (11) thru (20) of IC8051?
No
IC8609 or its peripheral circuit faulty.
Yes
IC8051 or its peripheral circuit or output PWB faulty.
Checking the VGA's green video circuit and its peripheral circuits
Is there signal at pin (124) of IC8606?
No
Yes
Are there signals at pins (68) thru (75) as well as (78) thru (88), except for GND, of P8606?
No
Yes
1
Are there signals at pins (165) thru (177) of IC8020?
No
Yes
Are there signals at pins (178) thru (187) of IC8020?
No
IC8020 or its peripheral circuit faulty.
Yes
Check the video system's green video circuit and its peripheral circuits
Is there signal at pin (126) of IC8606?
No
C8703 or its peripheral circuit or signal PWB faulty.
Yes
1

# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-7

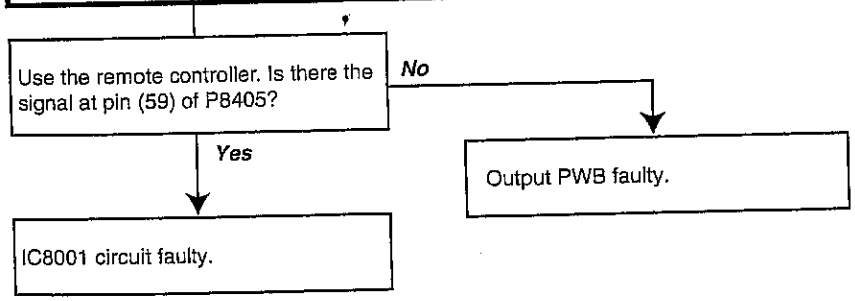

Checking the S-XGA's blue video circuit and its peripheral circuits
Is there signal at pin (133) of IC8606?
No
Terminal PWB, C8623 defective.
Yes
Are there signals at pins (45) thru (53) as well as (56) thru (64), except for GND, of P8606?
No
IC8606 or its peripheral circuit faulty.
Yes
Are there signals at TL8048 and TL8049?
No
IC8025 or its peripheral circuit faulty.
Yes
Is there signal at pin (U15)(TL8614) of IC8609?
No
IC8029 or its peripheral circuit faulty.
Yes
Are there signals at pins (21) thru (30) of IC8051?
No
IC8609 or its peripheral circuit faulty.
Yes
IC8051 or its peripheral circuit or output PWB faulty.
Checking the VGA's blue video circuit and its peripheral circuits
Is there signal at pin (133) of IC8606?
No
Yes
Are there signals at pins (45) thru (53) as well as (56) thru (64), except for GND, of P8606?
No
Yes
1
Are there signals at pins (85) thru (93) of IC8020?
No
Yes
Are there signals at pins (74) thru (83) of IC8020?
No
IC8020 or its peripheral circuit faulty.
Yes
Check the video system's blue video circuit and its peripheral circuits
Is there signal at pin (136) of IC8606?
No
C8704 or its peripheral circuit or signal PWB faulty.
Yes
1

# TROUBLE SHOOTING TABLE FOR PC I/F UNIT-8

## Checking the OSD circuit and its peripheral circuits


Display OSD on the screen.
Are there signals at pins (56), (58), (71) and (72) (TL8054,TL8053,TL8052 TL8051) of IC8048?
No
IC8029 or its peripheral circuit faulty.
Yes
Are there signals at pins (12), (14) thru (17) and (20) of IC8046?
No
IC8048 or its peripheral circuit faulty.
Yes
Are there signals at pins (23) thru (42) of IC8046?
No
IC8046 or its peripheral circuit faulty.
Yes
IC8048 or its peripheral circuit faulty.

## Checking the remote controllor



# Technische Daten

| | |
|---|---|
| Produkttyp | LCD Projector |
| Modell | XG-C40XE |
| Videosystem | PAL/SECAM/NTSC 3.58/NTSC 4.43/DTV 480P/DTV 720P/DTV 1080I |
| Wiedergabeverfahren | LCD-Projektionspaneel × 3, optisches RGB-Verschlußverfahren |
| LCD-Projektionspaneel | Panelgröße: 22,9 mm (0,9) (13,9 mm [H] × 18,5 mm [B])<br>Wiedergabe-Verfahren: Durchlässiges TN-Flüssigkristall-Paneel<br>Treiberverfahren: TFT (Dünnfilmtransistor) Aktivmatrix-Paneel<br>Anzahl der Bildpunkte: 786.432 Bildpunkte (1.024 [H] × 768 [V]) |
| Objektiv | 1–1,3 Zoomobjektiv, F1,7–2,0, f = 33–43 mm |
| Projektionslampe | 200 W Gleichstrom-Lampe |
| Kontrastverhältnis | 250:1 |
| Videoeingangssignal | RCA-Stecker: VIDEO, Gemischtes Video, 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert<br>RCA-Stecker: AUDIO, 0,5 Vrms mehr als 22 kΩ (Stereo) |
| S-Videoeingangssignal | 4-Pin Mini DIN-Stecker<br>Y (Luminanz-Signal): 1,0 Vs-s, negatives Sync.-Signal, 75 Ω terminiert<br>C (Chrominanz-Signal): Stoß 0,286 Vs-s, 75 Ω terminiert |
| Horizontale Auflösung | 560 Fernsehzeilen (Videoeingang), 750 Fernsehzeilen (DTV 720P-Eingang, Punkt für Punkt) |
| Audioausgang | 3 W (monaural) |
| RGB-Computereingangssignal | 15-Pin Mini D-Sub Steckanschluss (INPUT 1, 2):<br>RGB getrennt/gemischte Sync./Sync. auf Grün-Typ analoger Eingang: 0–0,7 Vs-s, positiv, 75 Ω terminiert<br>Stereo-Minibuchse: AUDIO, 0,5 Vrms, mehr als 22 kΩ (Stereo)<br>Horizontales Sync.-Signal: TTL-Pegelsignal (positiv/negativ) oder gemischtes Sync.-Signal (nur Macintosh)<br>Vertikales Sync.-Signal: Wie oben |
| Punktetakt | 12–230 MHz |
| Vertikale Frequenz | 43–200 Hz |
| Horizontale Frequenz | 15–126 kHz |
| Computereingangs-Signal | 9-Pin Mini DIN-Steckanschluß (RS-232C-Eingangsanschluß) |
| Lautsprechersystem | 8 cm (3 3/32) rund |
| Nennspannung | AC 100–240 V |
| Eingangsspannung | 3,3 A |
| Nennfrequenz | 50/60 Hz |
| Nennaufnahme | 300 W |
| Betriebstemperatur | + 5°C bis + 40°C |
| Lagertemperatur | – 20°C bis + 60°C |
| Gehäuse | Kunststoff |
| I/R-Trägerfrequenz | 38 kHz |
| Laserzeiger der Fernbedienung | Wellenlänge: 650 nm / Max. Ausgang: 1 mW / Klasse II Lasergerät |
| Abmessungen (ca.) | 229 × 121 × 310 mm (B × H × T) (nur Hauptgerät)<br>243,5 × 134 × 358,4 mm (B × H × T) (einschließlich Drehfüße und vorstehende Teile) |
| Gewicht (ca.) | 4,8 kg |
| Mitgeliefertes Zubehör | Fernbedienung, Zwei Batterien der Größe AA, Netzkabel (1,8 m), RGB-Computerkabel (3m), Computer-Audiokabel (3 m), USB-Maus-Steuerungskabel (1,5 m), DIN-D-Sub RS-232C-Kabel (15 cm),Fernbedienungs-Mausempfänger, Ersatz-Luftfilter, Objektivkappe (angebracht), CD-ROM, Bedienungsanleitung für LCD-Projektor, Kurzreferenz für LCD-Projektor,Software-Anleitung für Sharp Advanced Presentation |
| Ersatzteile | Lampensatz (Lampe/Käfigmodul) (BQC-XGC40XU/1), Fernbedienung (RRMCG1584CESA), Batterien der Größe AA, Netzkabel (QACCB5024CENA, QACCV4002CEZZ), RGB-Computerkabel(QCNWG0002CEZZ), Computer-Audiokabel (QCNW-4870CEZZ),USB-Maus-Steuerungskabel (QCNWG0007CEPZ), DIN-D-Sub RS-232C-Kabel (QCNW-5288CEZZ), Fernbedienungs-Mausempfänger (RUNTK0673 CEZZ), Luftfilter (PFILD0076CEZZ), Objektivkappe(GCOVH1307CESB), CD-ROM (UDSKA0057CEN1), Bedienungsanleitung für LCD-Projektor (TINS-7533CEZZ), Kurzreferenz für LCD-Projektor (TINS-7534CEZZ, TINS-7535CEZZ, TINS-7536CEZZ), Software-Anleitung für Sharp Advanced Presentation(TINS-7537CEZZ) |

Dieser Projektor von SHARP ist mit 3 LCD- (Flüssigkristallanzeige) Projektionspaneels ausgestattet. Diese neuartigen Projektionspaneels enthalten TFTs (Dünnfilmtransistoren) mit insgesamt 786.432 Bildpunkten (× RGB). Bei allen technologisch fortschrittlichen, elektronischen Geräten, z. B. Großbild-Fernsehern, Videosystemen bzw. Videokameras, sind bestimmte Toleranzgrenzen für die Funktionen gegeben.

Dieses Gerät hat einige inaktive, innerhalb akzeptierter Toleranzgrenzen liegende TFTs, die als beleuchtete oder als nicht aktive Punkte auf der Bildwand wiedergegeben werden. Dies hat keinen Einfluß auf die Bildqualität und die Lebensdauer des Gerätes.

*Änderungen der technischen Daten ohne vorherige Ankündigung vorbehalten.*

# HINWEIS FÜR DAS WARTUNGSPERSONAL

## ACHTUNG: UV-STRAHLUNG

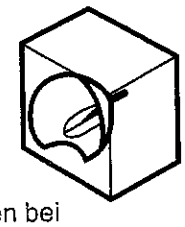
**Die Lichtquelle im LCD-Projektor, eine Metall-Halogen-Lampe, gibt eine geringe UV-Strahlung ab.**

**DIREKTE BESTRAHLUNG AUF AUGEN UND HAUT MUSS VERMIEDEN WERDEN.**

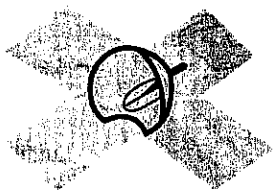
**Zur Gewährleistung der Sicherheit muß folgendes beachtet werden:**

1. Bei Arbeiten am Projektor bei eingeschalteter Lampe und abgenommenem oberen Gehäuse muß unbedingt eine Sonnenbrille getragen werden.

2. Die Lampe darf nicht außerhalb des Lampengehäuses eingeschaltet werden.



3. Betrieb für länger als 2 Stunden bei abgenommenem Gehäuse ist nicht zulässig.



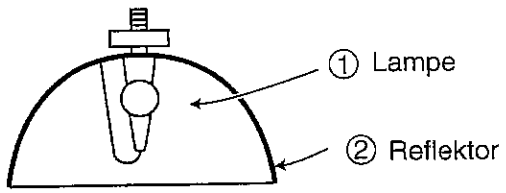
## Zur Beachtung bei UV-Strahlung und Mitteldruck-Lampen

1. Vor dem Auswechseln der Lampe muß der Netzstecker gezogen werden.
2. Vor Durchführung von Wartungsarbeiten muß das Gerät eine Stunde abkühlen.
3. Nur mit dem gleichen Lampentyp ersetzen Typ CLMPF0075CE01 oder BQC-XGC40XU/1; Nennleistung 85 V / 200 W.
4. Die Lampe gibt eine geringe UV-Strahlung ab, daher muß direkter Augenkontakt vermieden werden.
5. Die Mitteldruck-Lampe weist ein Explosionsrisiko auf. Daher müssen die nachstehenden Installationsanweisungen beachtet werden, und die Lampe muß vorsichtig behandelt werden.

## ■ Auswechseln der Lampe

**Hinweis:**

Da die Lampe während des Betriebs sehr heiß wird, sollte die Lampe erst ausgewechselt werden, nachdem das Gerät mindestens eine Stunde ausgeschaltet war, damit die Lampe ausreichend abkühlen kann.
Beim Installieren der neuen Lampe muß darauf geachtet werden, die Lampe selbst (Glaskolben) nicht zu berühren. Vielmehr muß die Lampe am Reflektor ② gehalten werden.
[Es darf nur ein Original-Ersatzteil verwendet werden.]




**GEFAHR!** — Niemals die Spannungsversorgung einschalten, ohne daß eine Lampe vorhanden ist, um elektrische Schläge und Schäden am Gerät zu vermeiden, da der Stabilisator anfangs hohe Spannungen erzeugt.

Da eine geringe UV-Strahlung aus einer Öffnung zwischen der Schachtabdeckung und dem Lampengehäuse austritt, sollte der Objektivdeckel bei Wartungsarbeiten auf die Öffnung gesetzt werden, um die Bestrahlung von Augen und Haut zu vermeiden (Abb. 1).

**Hinweis:** Besorgen Sie sich einen Objektivdeckel, bevor Sie Arbeiten an einem Modell XG-C40XE durchführen, das keinen Objektivdeckel aufweist.

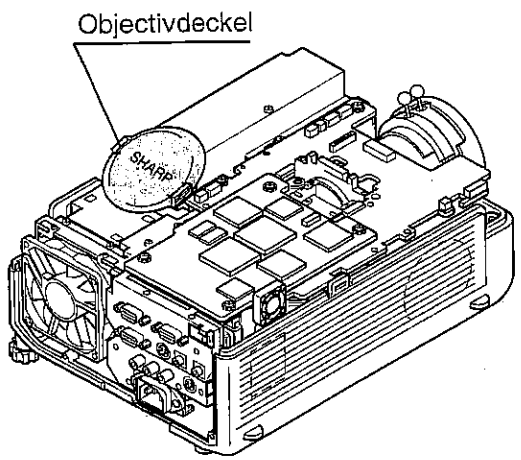
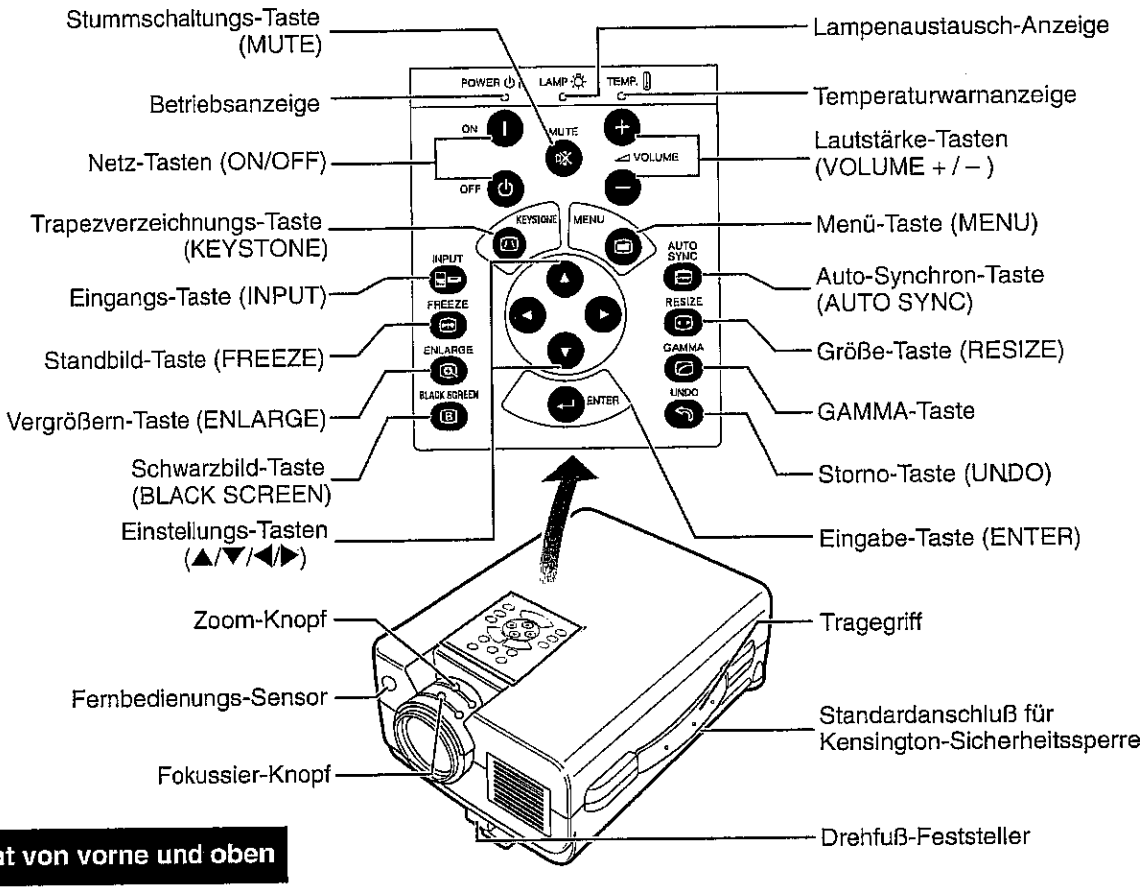



**Abbildung 1.**

# BEDIENUNGSANLEITUNG

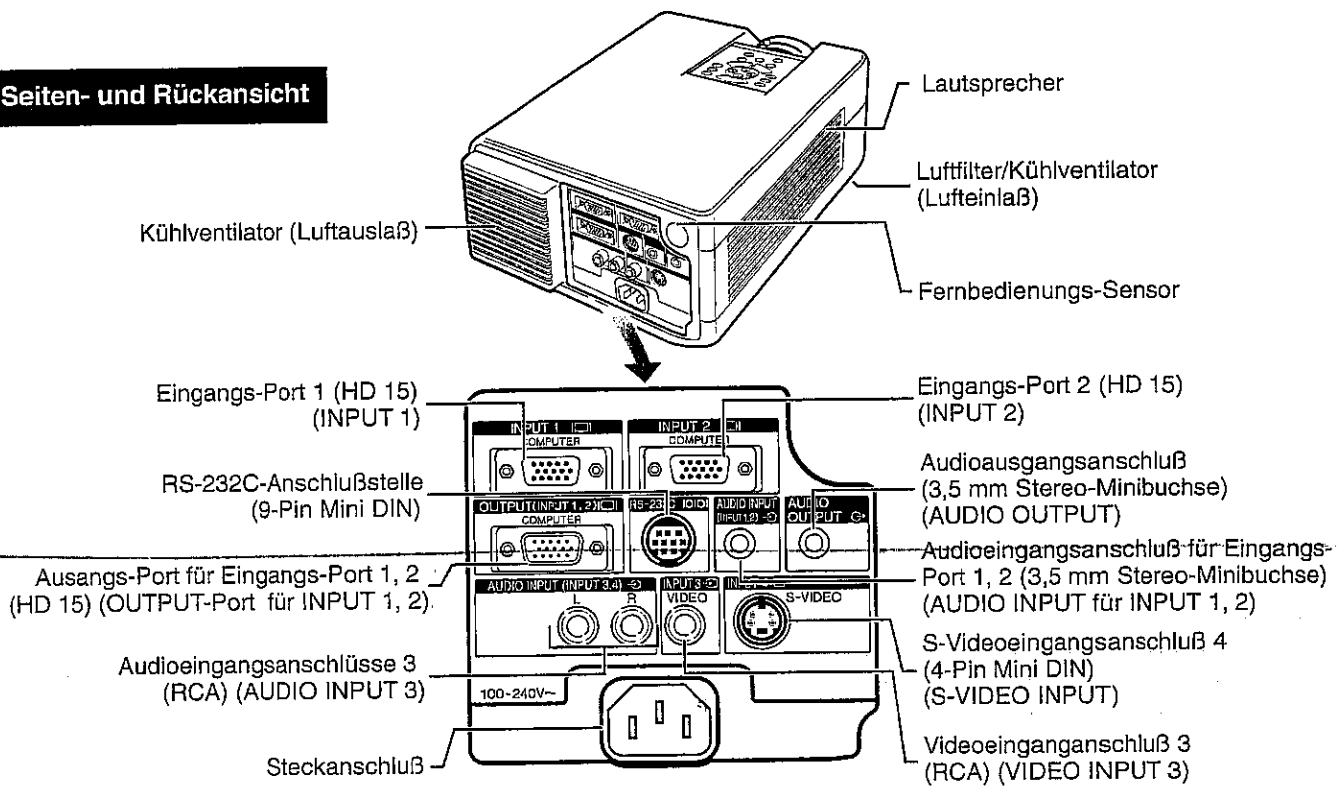
## Lage der Bedienelemente

### Projektor



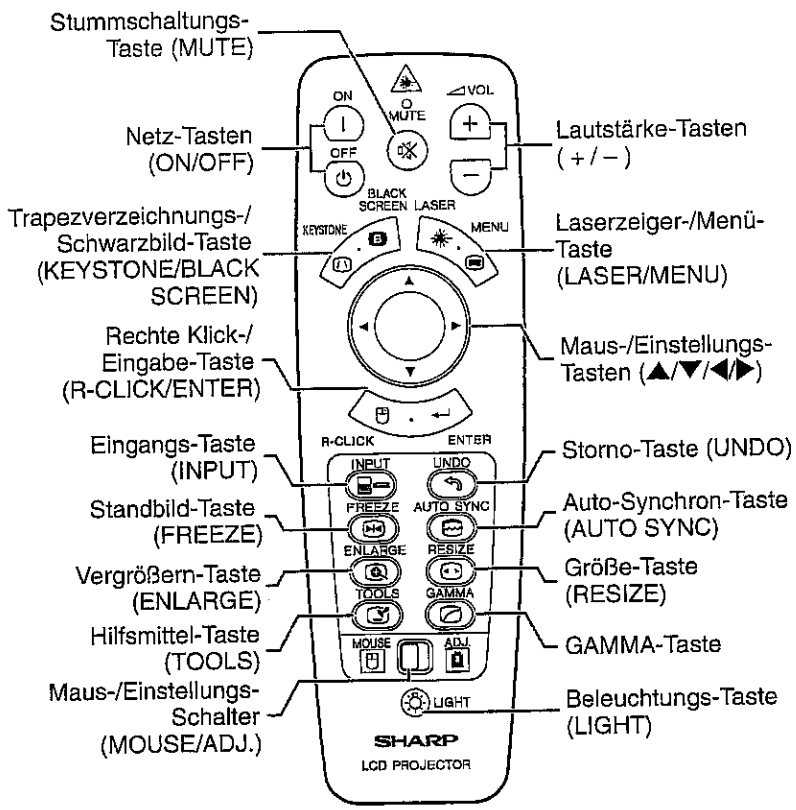

**Ansicht von vorne und oben**

**Seiten- und Rückansicht**

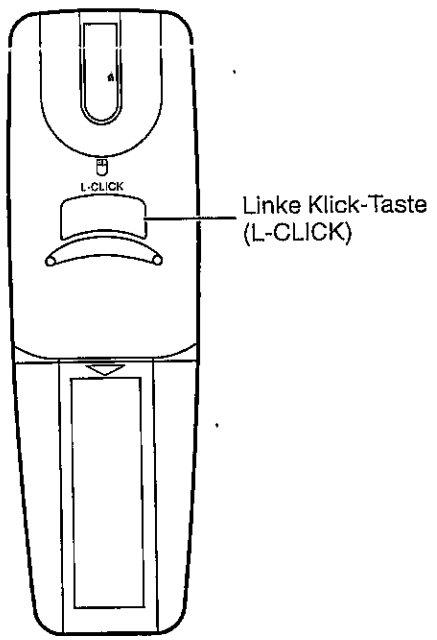


## Betrieb mit der drahtlosen Maus-Fernbedienung
## Fernbedienung

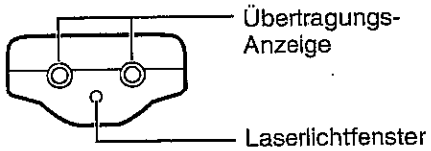
**Vorderansicht**



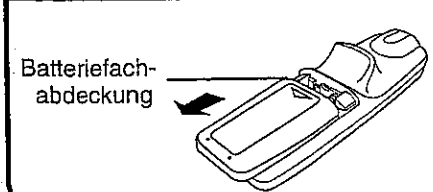
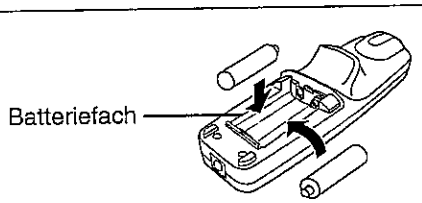
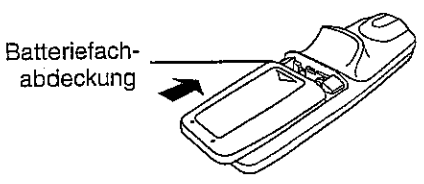

**Ansicht von hinten**

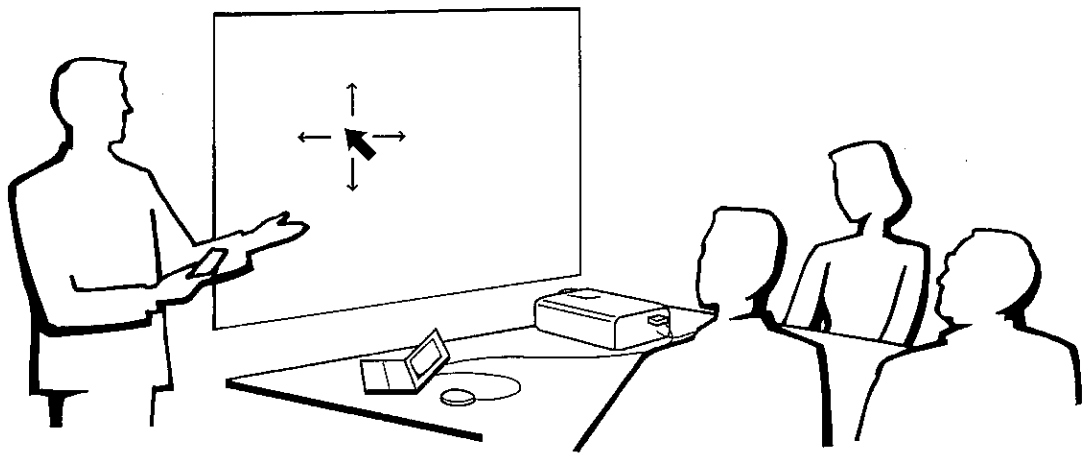



**Ansicht von oben**




## Einsetzen der Batterien

| 1 | 2 | 3 |
|---|---|---|
| **Zum Entfernen der Batteriefachabdeckung auf die Pfeilmarkierung drücken und in Pfeilrichtung schieben.** | **Zwei Batterien der Größe AA einlegen und sicherstellen, daß die Pole mit der + und – Markierung im Batteriefach übereinstimmen.** | **Die seitlichen Vorsprünge der Batteriefachabdeckung in die entsprechenden Schlitze einsetzen und auf die Abdeckung drücken, bis sie richtig aufgeschoben ist.** |
|   |   |   |

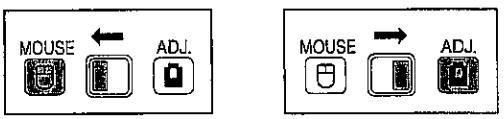


## Verwendung der Fernbedienung als eine drahtlose Maus

Die Fernbedienung ist mit den folgenden drei Funktionen ausgestattet:

- Projektor-Steuerung
- Drahtlose Maus
- Laserzeiger

**MOUSE/ADJ.-Schalter (Fernbedienung)**




**Drahtlose Maus Laserzeiger** | **Projektor-Steuerung**

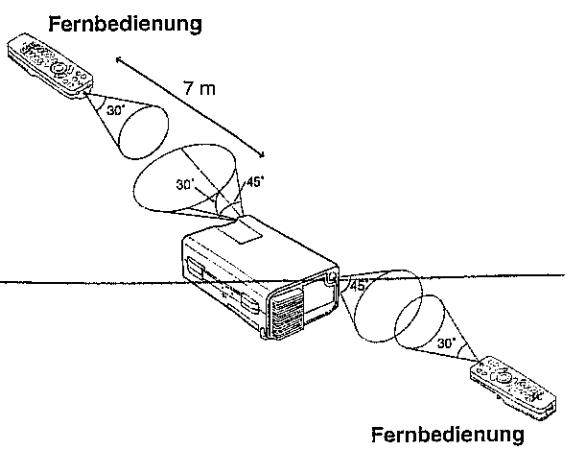
## Positionierung der Fernbedienung bzw. des Mausempfängers

- Die Fernbedienung kann zur Steuerung des Projektors innerhalb des unten gezeigten Bereiches verwendet werden.
- Der Fernbedienungs-Mausempfänger kann mit der Fernbedienung zusammen zur Steuerung der Mausfunktion eines angeschlossenen Computers innerhalb des unten gezeigten Bereiches verwendet werden.

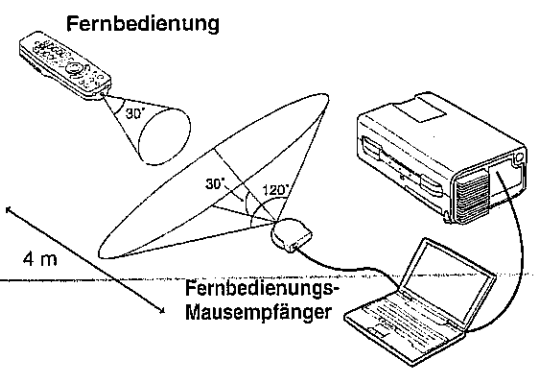
**HINWEIS**

- Das Signal der Fernbedienung kann für einen einfacheren Betrieb von der Bildwand reflektiert werden. Der wirksame Abstand des Signals kann aufgrund des Materials der Bildwand unterschiedlich sein.

### Steuerung des Projektors

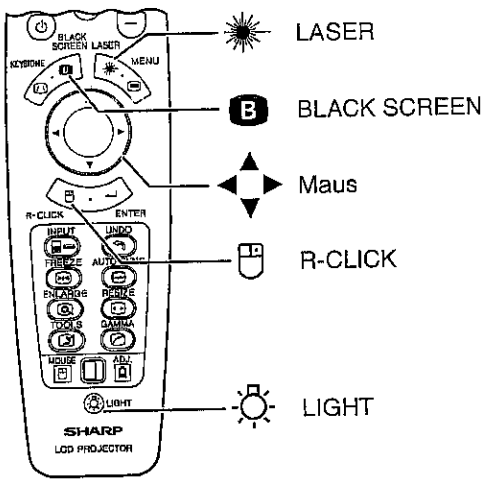



### Verwendung der drahtlosen Maus

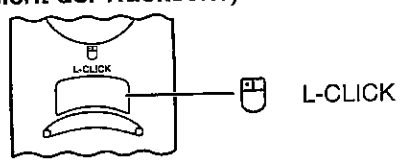


### Verwendbare Tasten in der MOUSE-Betriebsart

**Fernbedienung (Ansicht von vorne)**



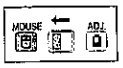

**Fernbedienung (Ansicht der Rückseite)**




## Verwendung als eine drahtlose Maus

Sicherstellen, daß der mitgelieferte Fernbedienungs-Mausempfänger am Computer angeschlossen ist.

(Den **MOUSE/ADJ.**-Schalter auf der Fernbedienung auf die MOUSE-Position schieben.)



**HINWEIS**

- Die drahtlose Maus kann nicht richtig funktionieren, wenn der serielle Port des Computers nicht richtig eingestellt ist. Siehe die Bedienungsanleitung des Computers für Hinweise zur Einstellung bzw. Installation des Maustreibers.
- Für eintastige Systeme kann sowohl **L-CLICK** als auch **R-CLICK** verwendet werden.

### Verwendung der Fernbedienung in einem dunklen Raum

Durch Drücken von **LIGHT** werden die Tasten beleuchtet. Die grünen Tasten bedeuten Mausbetrieb und die roten Tasten Projektoreinstellungen.

| Tastenbezeichnung | Position des MOUSE/ADJ.-Schalters | |
|---|---|---|
| | *MOUSE* ⟷ *ADJ.* | |
| LASER/MENU | LASER (GRÜN) | MENU (ROT) |
| BLACK SCREEN/KEYSTONE | BLACK SCREEN (GRÜN) | KEYSTONE (ROT) |
| R-CLICK/ENTER | R-CLICK (GRÜN) | ENTER (ROT) |
| ▲/▼/◀/▶ | ▲/▼/◀/▶ (LEUCHTET NICHT) | ▲/▼/◀/▶ (LEUCHTET NICHT) |
| L-CLICK | JA (LEUCHTET NICHT) | — |
| ON/OFF | JA (ROT) | |
| VOLUME + / − | | |
| MUTE | | |
| INPUT | | |
| UNDO | | |
| FREEZE | | |
| AUTO SYNC | | |
| ENLARGE | | |
| RESIZE | | |
| TOOLS | | |
| GAMMA | | |

## Verwendung als ein Laserzeiger

(Den **MOUSE/ADJ.**-Schalter auf der Fernbedienung auf die MOUSE-Position schieben.)

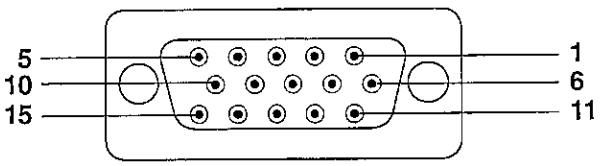
**LASER** (✳) zum Aktivieren des Laserzeigers drücken. Beim Loslassen der Taste erlöscht das Licht automatisch.

**HINWEIS**

- Aus Sicherheitsgründen erlöscht der Laserzeiger automatisch nach einer Minute fortlaufender Verwendung. Zum Einschalten **LASER** (✳) loslassen und erneut drücken.

## Pinbelegung

### Analoger Computer-Signaleingang 1 und 2: 15-Pin Mini-D-Sub-Buchse



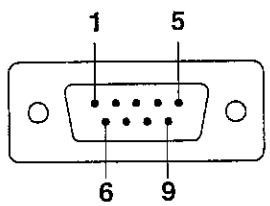

**Computereingang**
Analog

1. Videoeingang (rot)
2. Videoeingang (Grün/Sync. auf Grün)
3. Videoeingang (blau)
4. Reserveeingang 1
5. Gemischtes Sync.-Signal
6. Erdung (rot)
7. Erdung (Grün/Sync. auf Grün)
8. Erdung (blau)
9. Nicht belegt
10. MASSE
11. MASSE
12. Bi-direktionale Daten
13. Horizontales Sync.-Signal
14. Vertikales Sync.-Signal
15. Daten-Zeitgeber

**Komponenten-Eingang**

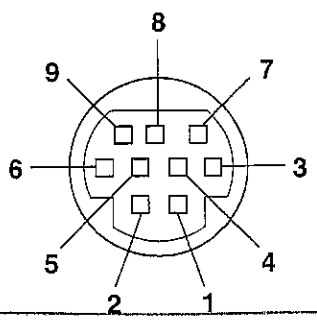
1. $P_R(C_R)$
2. Y
3. $P_B$
4. Nicht belegt
5. Nicht belegt
6. Erdung ($P_R$)
7. Erdung (Y)
8. Erdung ($P_B$)
9. Nicht belegt
10. Nicht belegt
11. Nicht belegt
12. Nicht belegt
13. Nicht belegt
14. Nicht belegt
15. Nicht belegt

### RS-232C-Anschlußstelle: 9-Pin D-Sub-Stecker des DIN-D-Sub RS-232C-Kabels




| Pin Nr. | Signal | Name | E/A | Referenz |
|---|---|---|---|---|
| 1 | CD | | | Nicht angeschlossen |
| 2 | RD | Daten empfangen | Eingang | An internen Schaltkreis angeschlossen |
| 3 | SD | Daten senden | Ausgang | An internen Schaltkreis angeschlossen |
| 4 | ER | | | Nicht angeschlossen |
| 5 | SG | Signalerdung | | An internen Schaltkreis angeschlossen |
| 6 | DR | Datensatz bereit | Ausgang | Nicht angeschlossen |
| 7 | RS | Anforderung zum Senden | Ausgang | An internen Schaltkreis angeschlossen |
| 8 | CS | Bereit zum Senden | Eingang | An internen Schaltkreis angeschlossen |
| 9 | CI | | | Nicht angeschlossen |

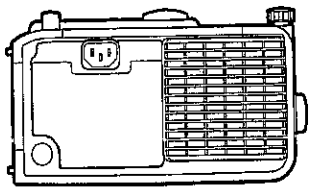
### RS-232C-Anschlußstelle: 9-Pin Mini DIN-Steckanschluß



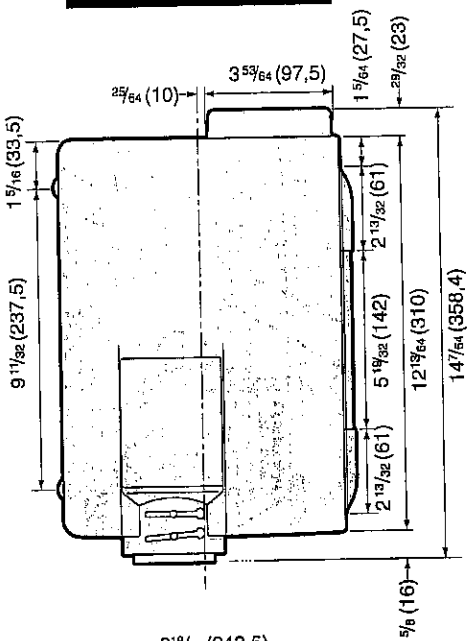

| Pin Nr. | Signal | Name | E/A | Referenz |
|---|---|---|---|---|
| 1 | VCC | + 3,3 V (Reserviert) | Ausgang | Nicht angeschlossen |
| 2 | RD | Daten empfangen | Eingang | An internen Schaltkreis angeschlossen |
| 3 | SD | Daten senden | Ausgang | An internen Schaltkreis angeschlossen |
| 4 | EXIR | Detektor für Zusatzgerät (Reserviert) | Eingang | Nicht angeschlossen |
| 5 | SG | Signalerdung | | An internen Schaltkreis angeschlossen |
| 6 | ERX | IR Empfangssignal von IR-Verstärker (Reserviert) | Eingang | Nicht angeschlossen |
| 7 | RS | Aufforderung zum Senden | Ausgang | An internen Schaltkreis angeschlossen |
| 8 | CS | Bereit zum Senden | Eingang | An internen Schaltkreis angeschlossen |
| 9 | ETX | IR-Signalübertragung (Reserviert) | Ausgang | Nicht angeschlossen |

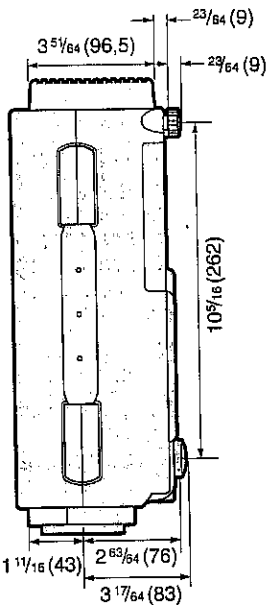
## Abmessungen

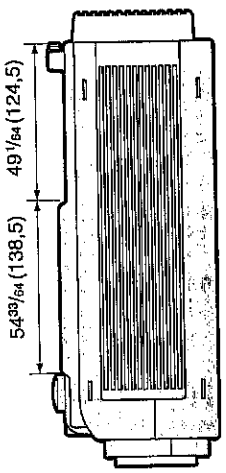
**Ansicht der Rückseite**



**Ansicht von oben**

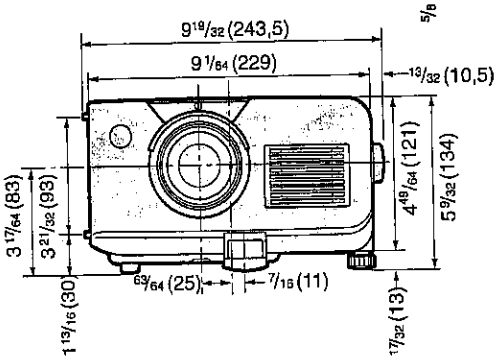


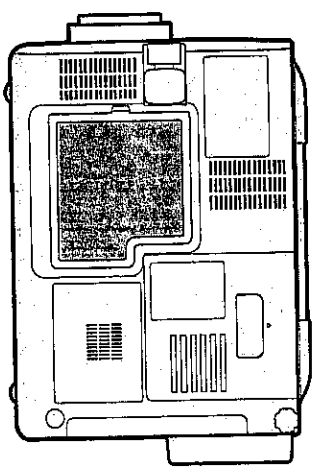




**Seitenansicht**

**Ansicht von vorne**




**Ansicht von unten**

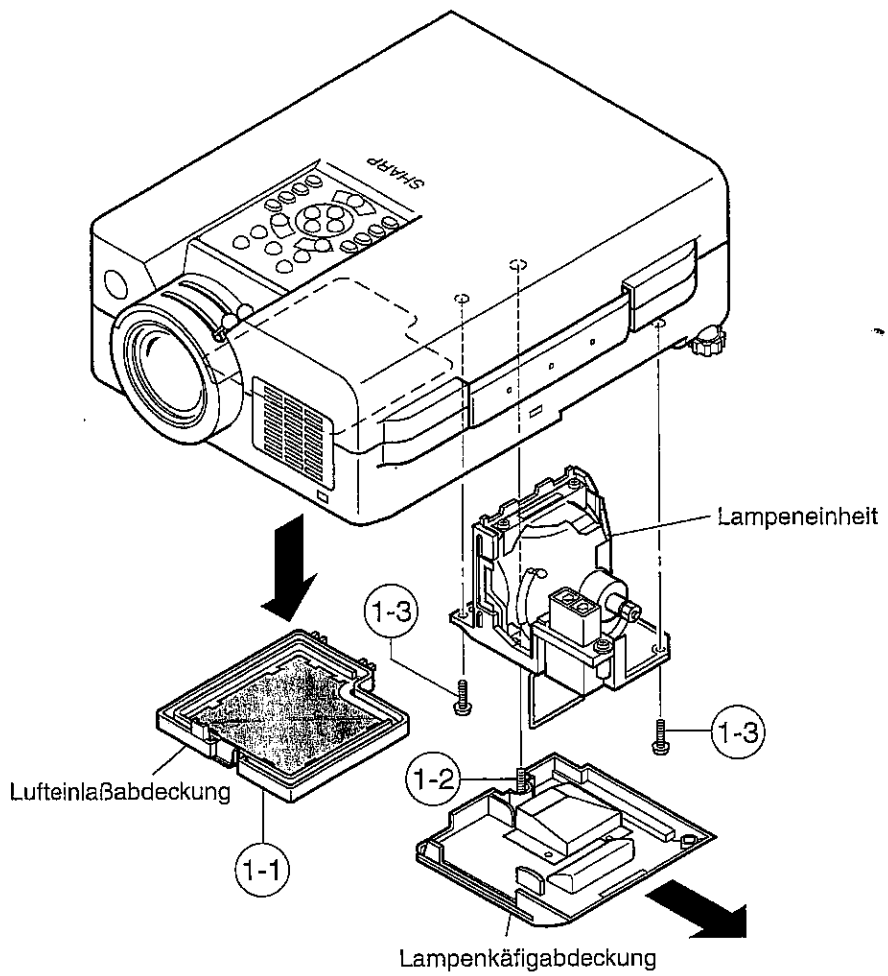


Einheit: zoll(mm)

# ENTFERNEN DER HAUPTTEILE

## 1. Entfernen der Lufteinlaßabdeckung und der Lampeneinheit

1-1. Die Lufteinlaßbdeckung abnehmen
1-2. Die Schraube der Lampenkäfigabdeckung losdrehen und dann die Lampenkäfigabdeckung in Pfeilrichtung (zum Körper) herausziehen.
1-3. Die beiden Sicherungsschrauben der Lampeneinheit losdrehen und die Lampeneinheit abnehmen.

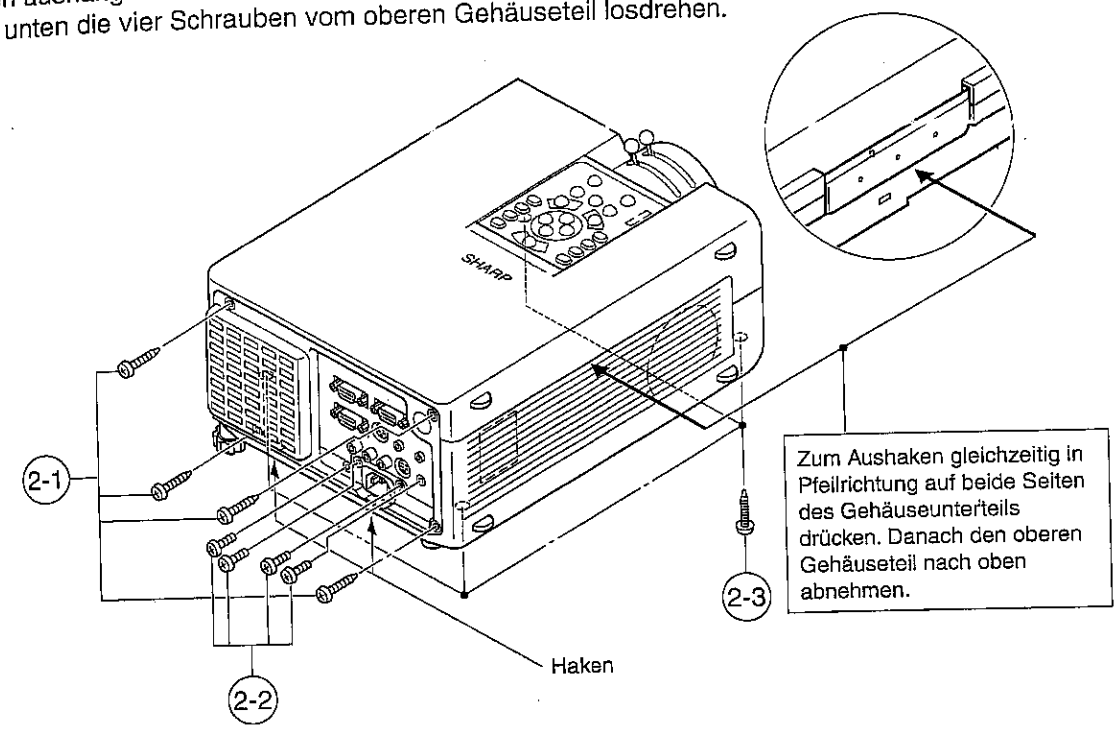



**Hinweis:**

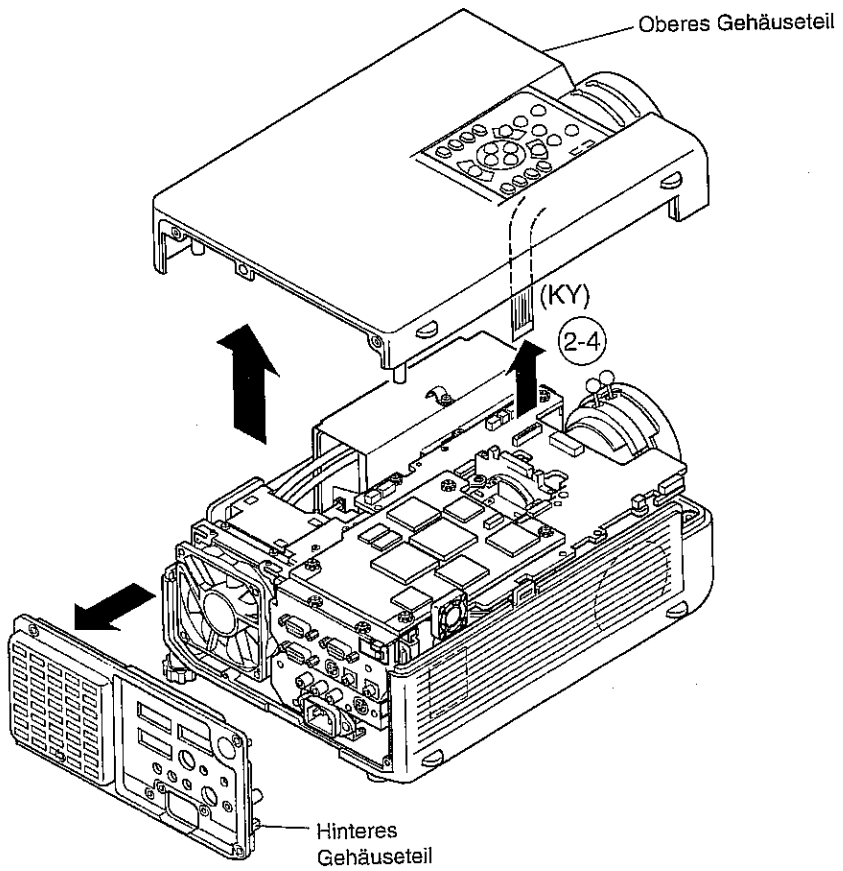
Beim Lampenaustausch sicherstellen, daß der Anschluß und die Schnappklemmfeder (sowie die anderen Metallteile) der Lampe mehr als 8 mm Abstand voneinander haben.

## 2. Entfernen des oberen und hinteren Gehäuseteils

2-1. Die vier Schrauben vom hinteren Gehäuseteil losdrehen.
2-2. Die vier Schrauben der Anschlußplatte vom hinteren Gehäuseteil losdrehen. Das hintere Gehäuseteil von unten aushängen und abnehmen.
2-3. Von unten die vier Schrauben vom oberen Gehäuseteil losdrehen.

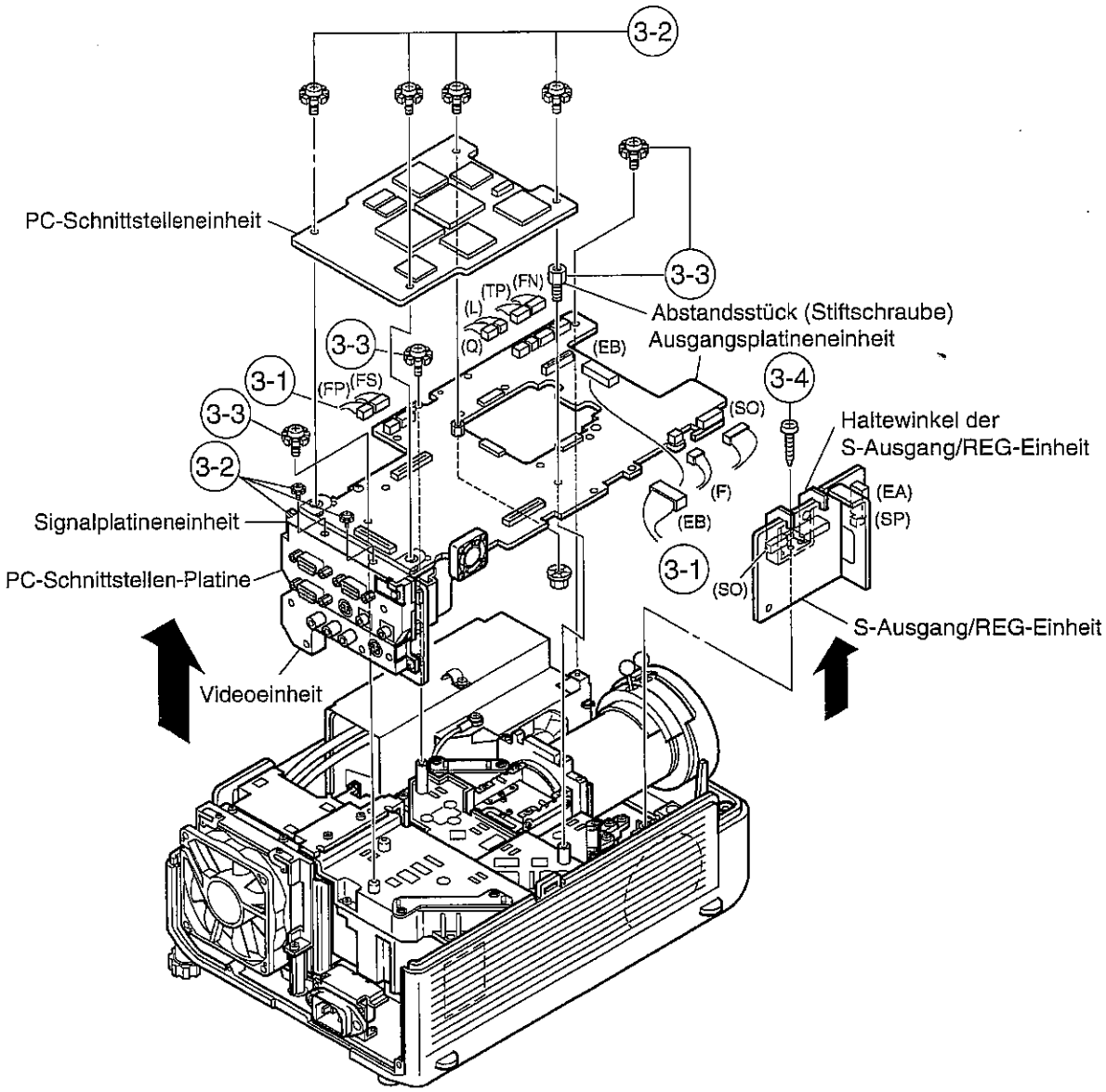



2-4. Das obere Gehäuseteil langsam anheben und den Platinen-Netzschalterstecker (KY) abziehen und schließlich das Oberteil abnehmen.



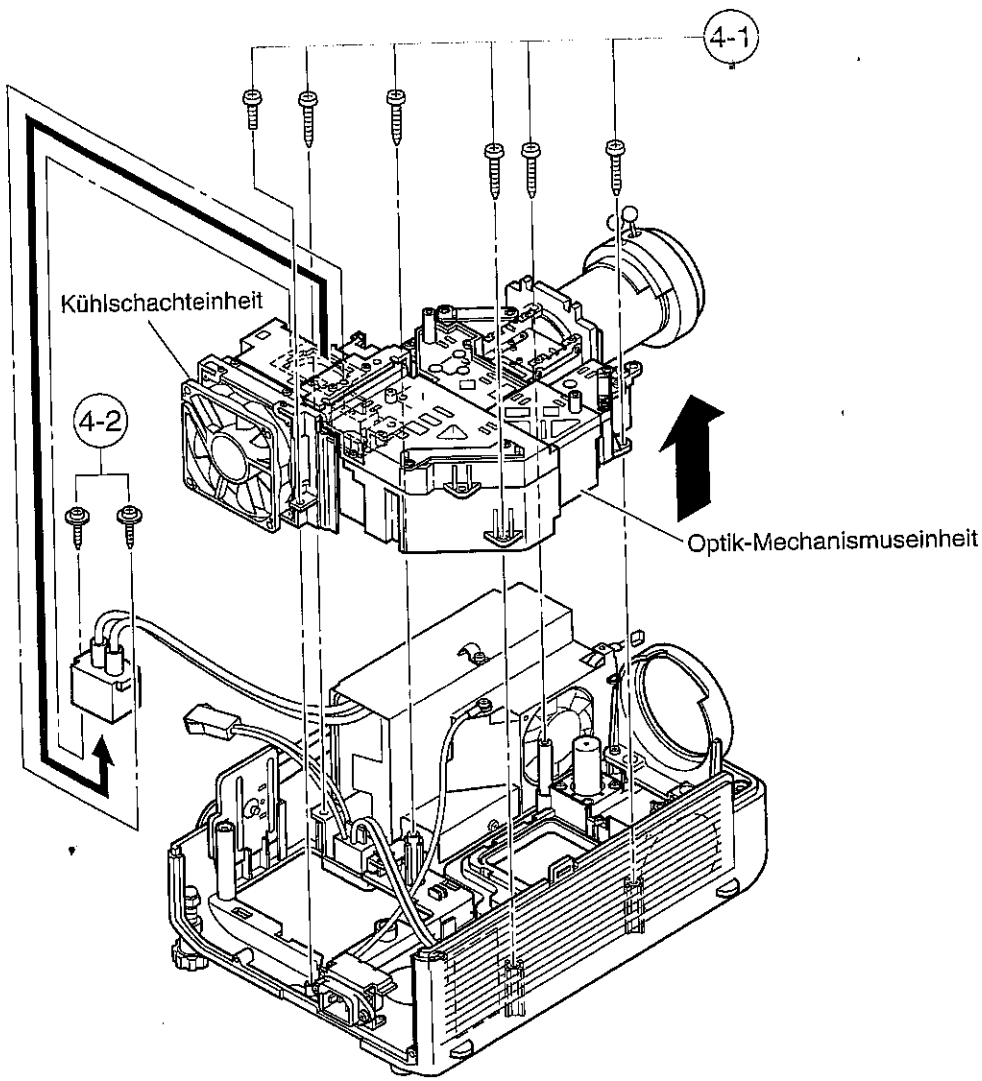
## 3. Entfernen der Platinen

3-1. Die Stecker von der Ausgabe-Einheit abziehen.
3-2. Die vier Befestigungsschrauben der PC-Schnittstelle-Einheit losdrehen.
Die beiden Schrauben und den Erdungsschirm entfernen, und die PC-Schnittstelle-Einheit abnehmen.
3-3. Das Abstandsstück (Stiftschraube) und die drei Schrauben der Ausgabe-Einheit entfernen. Die Ausgabe-Einheit anheben, dann zusammen mit der Signal-Einheit herausnehmen.
3-4. Die Schraube des Haltewinkels der S-Ausgang/REG-Einheit losdrehen und die Einheit abnehmen.



## 4. Entfernen der Optik-Mechanismuseinheit

4-1. Die sechs Schrauben der Optik-Mechanismuseinheit losdrehen und dann die Einheit herausnehmen.
4-2. Die beiden Schrauben des Lampenfassungshalters losdrehen und den Halter abnehmen.



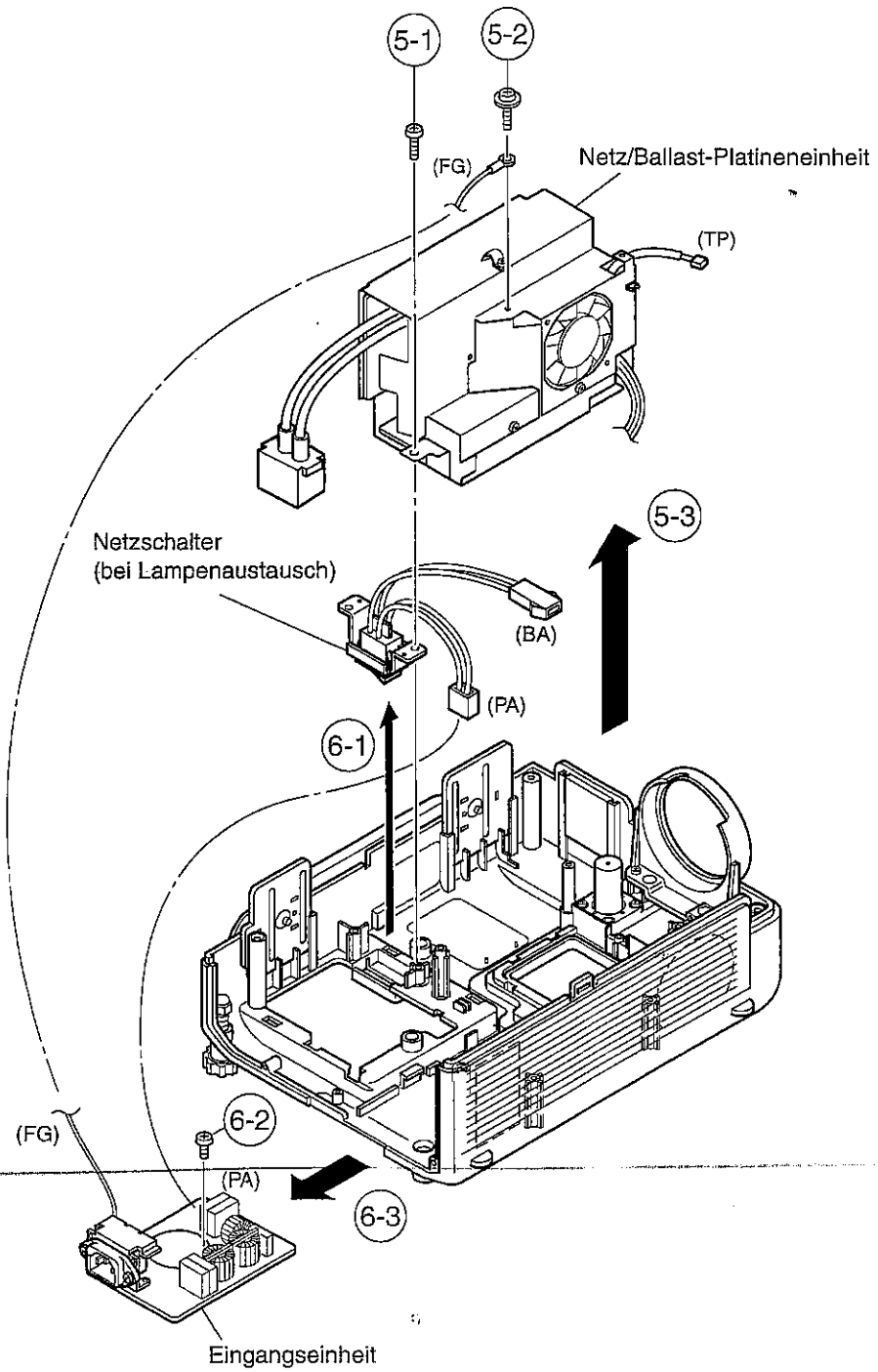
## 5. Entfernen der Netz/Ballast-Platineneinheit

5-1. Die Schraube der Netz/Ballast-Platineneinheit losdrehen.
5-2. Die Schraube des Anschlußdrahts (FG) losdrehen.
5-3. Die Netz/Ballast-Platineneinheit anheben und herausziehen.

## 6. Entfernen der Ballast-Platineneinheit und der Eingangseinheit

6-1. Den Stecker (PA) von der Eingangseinheit abziehen und den Netzschalter herausnehmen.
6-2. Die Sicherungsschraube der Eingabe-Einheit entfernen.
6-3. Die Eingangseinheit zum Körper herausziehen.

**Hinweis:** Vor dem Einbau der Lampenkäfigabdeckung sicherstellen, daß der Netzschalter in Position "○" (AUS) ist.

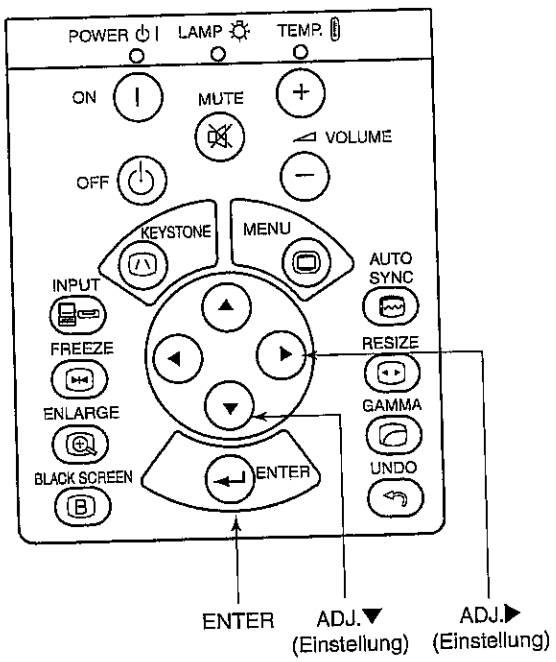


# NULLSTELLUNG DES LAMPEN-BETRIEBSSTUNDENZÄHLERS (GESAMTZEIT)

**Nachdem die Lampe ausgewechselt wurde, ist die aufgelaufene Gesamtzeit des Lampen-Betriebsstundenzählers in folgenden Schritten nullzustellen.**

## Nullstellungsverfahren

1. Während die Tasten "ENTER", "ADJ.▼" und "ADJ.▶" gleichzeitig gedrückt gehalten werden, den Hauptgeräteschalter aktivieren (befindet sich über dem Netzeingang).
2. Der Wert des Lampen-Betriebsstundenzählers ist nun auf Null zurückgestellt. "000H" erscheint auf dem Bildschirm.




## Lampe

Die Lampe dieses Projektors kann abhängig von der Betriebsumgebung etwa 2,000 Stunden verwendet werden. Es wird empfohlen, die Lampe nach 1,900 Betriebsstunden oder wenn eine sichtbare Verschlechterung der Bild- und Farbqualität auftritt, auszutauschen. Die Verwendungszeit der Lampe kann mit der Anzeige auf der Bildwand überprüft werden.

**⚠VORSICHT**

- Gefährliche Lichtstrahlen. Niemals beim Betrieb des Projektors in die Öffnung oder das Objektiv schauen.

**HINWEIS**

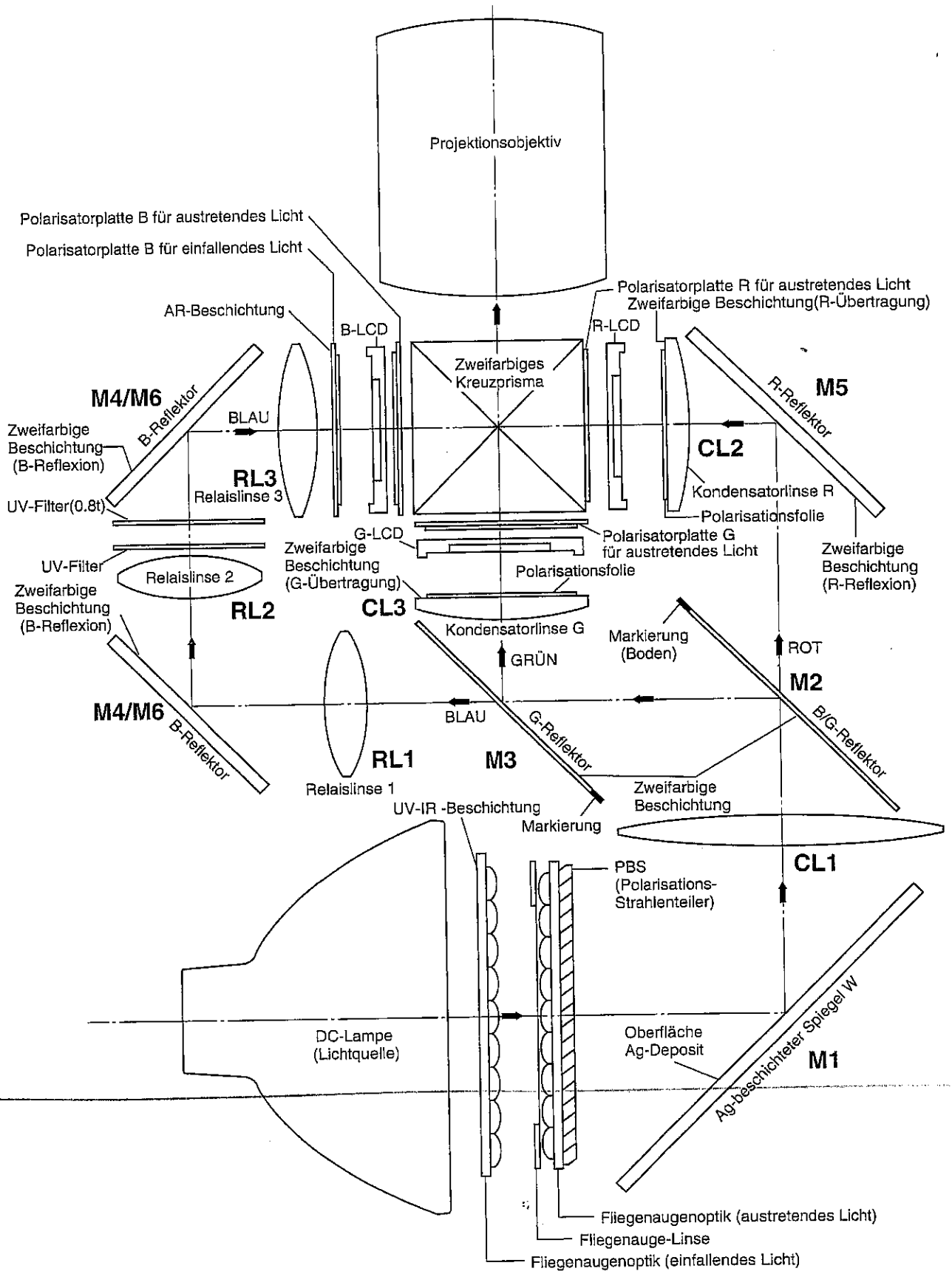
- Wenn die Betriebsumgebung große Unterschiede aufweist, kann die Verwendungdauer der Lampe weniger als 2,000 Stunden betragen.

| Symptom | Problem | Abhilfe |
|---|---|---|
| Die Lampenaustausch-Anzeige leuchtet rot auf und „LAMP." und „⚠" blinken gelb in der unteren linken Ecke der Bildwand. | • Die Lampe wurde über 1,900 Stunden verwendet. | • Einen Austauschlampen-Satz (Lampe/Käfigmodul) des gegenwärtigen Typs BQC-XGC40XU/1 beim nächsten von Sharp autorisierten Händler für LCD-Projektoren oder dem Kundendienst kaufen.<br>• Die Lampe austauschen. Sie können die Lampe auch bei einem von Sharp autorisierten Händler für LCD-Projektoren oder dem Kundendienst austauschen lassen. |
| Eine sichtbare Verschlechterung der Bild- und Farbqualität tritt auf. | | |
| Das Gerät wird automatisch ausgeschaltet und der Projektor auf Betriebsbereitschaft geschaltet. | • Die Lampe wurde über 2,000 Stunden verwendet. | |
| „LAMP." und „⚠" blinken rot in der unteren linken Ecke der Bildwand und das Gerät wird automatisch ausgeschaltet. | | |

# ÜBERSICHT DER OPTIKEINHEIT

## Übersicht des optischen Systems

**Hinweis: Anordnung der Bauteile im optischen System**



# EINSTELLUNG VON KONVERGENZ UND BRENNPUNKT

- **Bei eingeschaltetem Gerät und entferntem oberen Gehäuseteil mit der Konvergenz- und Brennpunkteinstellung beginnen. Die Bildeinstellung erfolgt mit der Fernbedienung. Es sind die folgenden Bedienschritte auszuführen:**

## 1. Fokussieren des Projektionsobjektivs

**(A) Auswechseln aller 3 Flüssigkristallanzeigen (LCD)**

1. Vor dem Auswechseln aller 3 Flüssigkristallanzeigen ist ein Bild auf die Leinwand zu projizieren und scharf einzustellen.
2. Die Flüssigkristallanzeigen durch neue ersetzen. Solange der Brennpunkt jedoch nicht vollständig eingestellt ist, sicherstellen, daß der Abstand zwischen dem Projektor und der Leinwand nicht verändert wird. Der Fokussierring des Projektionsobjektivs und der Zoomring dürfen ebenfalls nicht verändert werden.

**Hinweis:**

Wenn der Fokussierring mit einem unterschiedlichen Positionsverhältnis nachgestellt wird, wird das Verhältnis zwischen der Projektionsdistanz und der Leinwandgröße beeinflußt. Mit anderen Worten gesagt, kann ein Kurzdistanz-Bild (z.B. 40 mm Weitwinkel) außerhalb des Fokusbereichs liegen, während eine Zoomaufnahme (z.B. 300 Teleobjektiv) ebenfalls außerhalb des zulässigen Bereichs liegt.

**(B) Auswechseln von nur 1 oder 2 Anzeigen**

1. Wenn nach dem Auswechseln von einer oder zwei LCD-Anzeigen eine Brennpunkteinstellung vorgenommen wird, ein Bild auf die Leinwand projizieren, dann Fokussierring verstellen, um die nicht ausgewechselte LCD-Anzeige in den Brennpunkt zu bringen.
2. Solange der Brennpunkt für beide neuen LCD-Anzeigen jedoch noch nicht vollständig abgeschlossen ist, unbedingt darauf achten, daß der Abstand zwischen dem Gerät und der Leinwand nicht verändert wird. Der Fokussierring des Projektionsobjektivs und der Zoomring dürfen ebenfalls nicht verändert werden.
3. Wenn die Projektionsdistanz geändert oder das Projektionsobjektiv verstellt worden ist, sind die obigen Schritte 1 und 2 zu wiederholen.

## 2. Brennpunkteinstellung

**(A) Einstellen der G-LCD-Anzeige (Diese Einstellung nur auf weißer Leinwand vornehmen.)**

1. Einstellung in θX- und Z-Richtung
   Die Sicherungsschraube "a" lockern und einen exzentrischen Schraubendreher in die Kerbe und Bohrung "a" einführen. Den Schraubendreher so lange drehen, bis sich die obere Hälfte, die Mitte und die untere Hälfte der Leinwand im Brennpunkt befinden. Bei dieser Brennpunkteinstellung von oben nach unten die Sicherungsschrauben "b" und "c" anziehen, um die θY-Richtung zu fixieren.
   Zunächst die linke und rechte Hälfte ausbalancieren und dann die Genauigkeit während der folgenden Einstellung 2 verbessern.
2. Einstellung in θY-Richtung
   Die Sicherungsschraube "a" vorübergehend festziehen und die Sicherungsschrauben "b" und "c" lockern. Den exzentrischen Schraubendreher in die Kerbe und Bohrung "c" einführen, um die Einstellung in θY-Richtung auf der oberen Leinwandhälfte auszuführen. Den exzentrischen Schraubendreher in die Kerbe und Bohrung "b" einführen, um die Einstellung in θY-Richtung auf der unteren Leinwandhälfte auszuführen.
3. Die obigen Schritte 1 und 2 wiederholen, um den Brennpunkt feineinzustellen. Schließlich sämtliche Sicherungsschrauben gut festziehen.

**Hinweis:**

① Mit der Brennpunkteinstellung vorsichtig voranschreiten, da die Einstellpositionen in gegenseitigem Bezug zueinander stehen.

② Bei der Einstellung der Konvergenz und des Brennpunkts darauf achten, daß das Zoomobjektiv und die Einstellringe bis zur Beendigung aller Einstellungen nicht verstellt werden.

**(B) Einstellung der B-LCD-Anzeige (ebenso bei der R-LCD-Anzeige)**

1. Das gleiche Verfahren wie bei der Brennpunkteinstellung der G-LCD-Anzeige vornehmen. Es wird darauf hingewiesen, daß der Einstellbereich in Z-Richtung klein ist. Sollten die Konvergenzwerte zwischen der B-LCD-Anzeige und der G-LCD-Anzeige zu unterschiedlich sein, die Konvergenz zuerst grobeinstellen und dann die Brennpunkteinstellung vornehmen.

## 3. Einstellung der Konvergenz

- Für diese Einstellung ist ein Kreuzschraffier-Muster zu benutzen.
  Die Einstellung ist ausschließlich für die G-LCD und die zutreffende Farbe.

1. Die Konvergenz-Sicherungsschraube "d" lockern.
2. Einstellung in Y- und θZ-Richtung
   Den Innensechskantschlüssel im Y- und θZ-Richtung-Einstellbereich einsetzen.
3. Einstellung in X-Richtung
   Einen Einstellschlüssel mit Exzenternocken in den X-Richtung-Einstellbereich einsetzen.
4. Mit der G-LCD-Anzeige als Referenz die R-LCD- und die B-LCD-Anzeige einstellen.
5. Zum Schluß die Konvergenz-Sicherungsschraube "d" sicher festziehen.

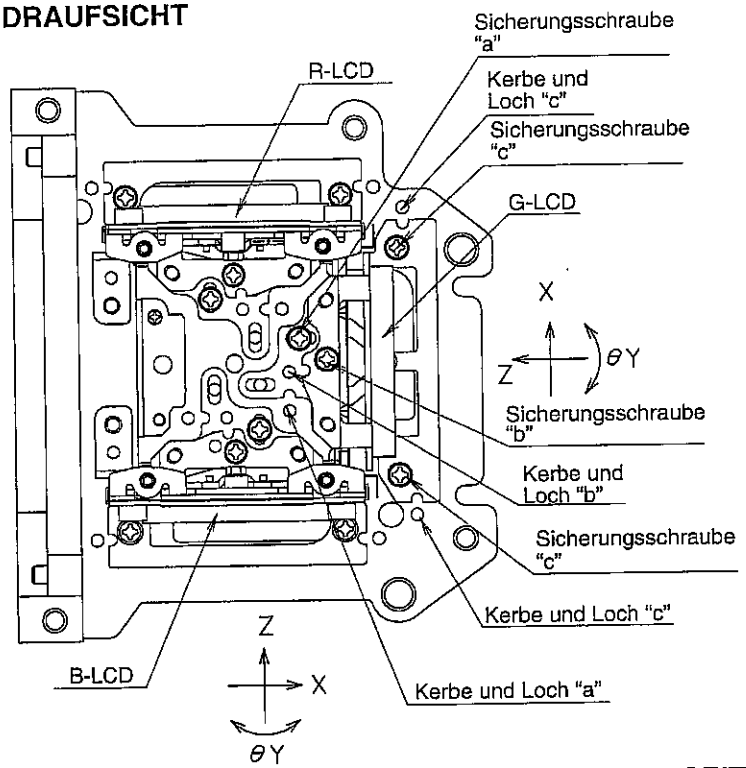
**Hinweis:**

① Der exzentrische Nocken wird für die Einstellung der Konvergenz benutzt. Das bedeutet daß sich der Nocken dreht und die Linearbewegung nicht immer gleichmäßig verläuft.

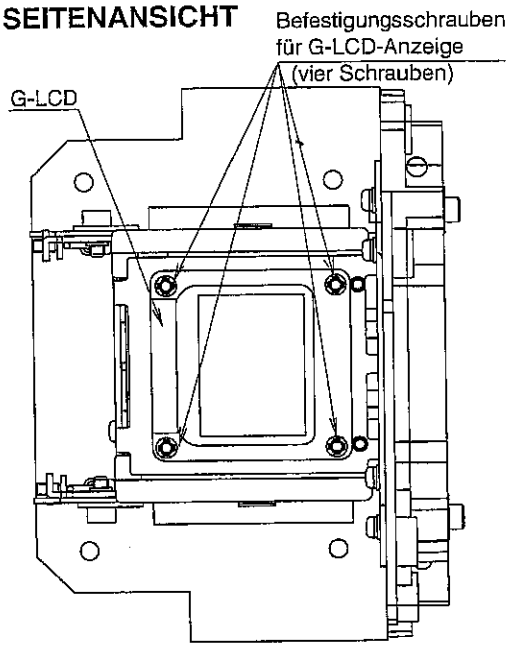
② Dieses Modell ist nicht mit einem LCD-Bildeinstellmechanismus ausgerüstst. Der Grund liegt in der Benutzung des zweifarbigen Prismas für die Bildformierung. Wenn alle LCD-Anzeigen optimal fokussiert sind, sind die Bilder fast vollständig konvergiert.

## Konvergenz- und Brennpunkt-Einstellmechanismus

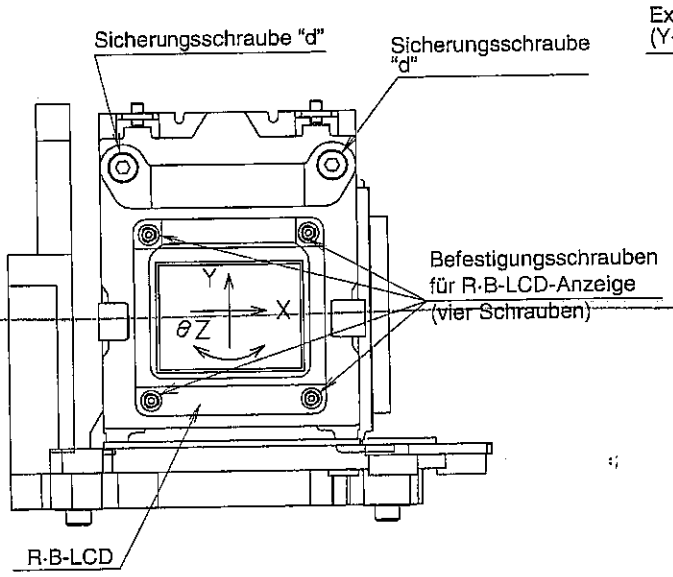
**DRAUFSICHT**



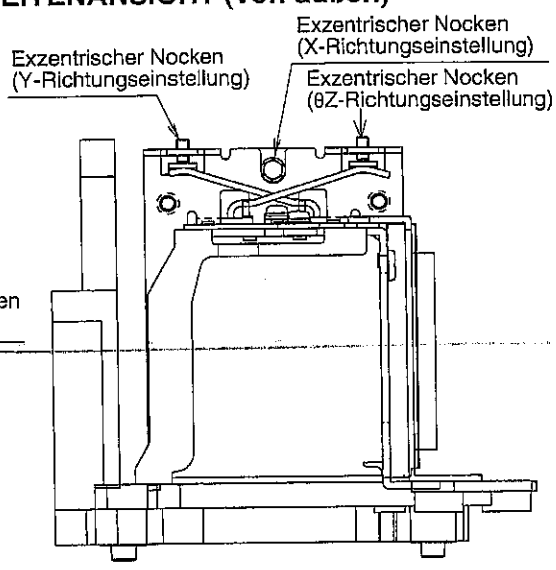

**SEITENANSICHT**




**SEITENANSICHT (von innen)**




**SEITENANSICHT (von außen)**



# Konvergenz- und Brennpunkteinstellungen auf einen Blick

## Einstellrichtungen

| Einstellung | Richtung | Definition | Richtung der LCD-Anzeige |
|---|---|---|---|
| Konvergenz | X-Richtung | | LCD rechts und links |
| | Y-Richtung | | LCD oben und unten |
| | θZ-Richtung | Drehung um die Z-Achse | LCD-Drehachse |
| Brennpunkt | Z-Richtung | | LCD, optische Achse |
| | θX-Richtung | Drehung um die X-Achse | LCD, oben bis unten (flattert) |
| | θY-Richtung | Drehung um die Y-Achse | LCD, rechts bis links (flattert) |

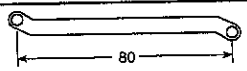
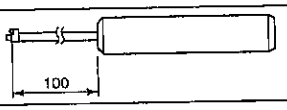
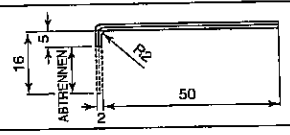
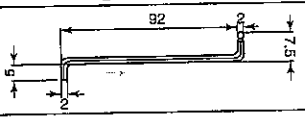
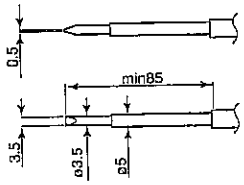
## Konvergenz- und Brennpunkteinstellung für den Optikmechanismus

| Farbe | Einstellung | Richtung | Bewegung | Position | Einstellwerkzeug | Sicherungsschraube | Festziehwerkzeug |
|---|---|---|---|---|---|---|---|
| R/B -Farben | Konvergenz | X-Richtung | ±0.8mm | Exzentrischer Nocken | Einstellschlüssel für exzentrischen Nocken | d | Innensechskantschlüssel |
| | | Y-Richtung | ±0.8mm | Exzentrischer Nocken | Einstellschlüssel für exzentrischen Nocken | d | Innensechskantschlüssel |
| | | θZ-Richtung | ±1° | Exzentrischer Nocken | Einstellschlüssel für exzentrischen Nocken | d | Innensechskantschlüssel |
| | Brennpunkt | Z-Richtung | ±0.8mm | Kerbe und Loch "a" und "c" | Exzentrischer Schraubendreher | a, c | Kreuzschlitz -Schraubendreher *Innensechskantschlüssel |
| | | θX-Richtung | ±1° | Kerbe und Loch "a" und "c" | Flachkopf-Schraubendreher | a, c | |
| | | θY-Richtung | ±1° | Kerbe und Loch "b" und "c" | | b, c | |
| G-Farbe | Brennpunkt | Z-Richtung | ±0.2mm | Gleich wie für R- und B-Farben | | | |
| | | θX-Richtung | ±1° | | | | |
| | | θY-Richtung | ±1° | | | | |

## Brennpunkteinstellung in die andere Richtung

| Sicherungsschraube | Position | Zugehörige Richtung |
|---|---|---|
| a | Kerbe und Loch "a" | Richtungen Z und θX |
| b | Kerbe und Loch "b" | θY-Richtung |
| c | Kerbe und Loch "c" | Richtungen Z, θX und θY |

## Konvergenz- und Brennpunkteinstellung sowie Festziehwerkzeuge

| Werkzeug | Spezifisch oder allgemein | Werkzeugcode | Konfiguration |
|---|---|---|---|
| Exzentrischer Nockeneinstellschlüssel | spezifisch | 9DASPN-XGNV1U |   |
| Exzentrischer Schraubendreher | spezifisch | 9DADRiVER-NV4U |   |
| Innensechskantschlüssel | allgemein (verändert) | 9EQLNC-XGNV1U |   |
| | | 9EQLNC-XGNV4U |   |
| Flachkopf-Schraubendreher | allgemein | 9EQDRiVER-NV1B |   |
| Kreuzschlitz-Schraubendreher | allgemein | — | Für Linsenrundkopfschraube M2.6 |
| *Innensechskantschlüssel | allgemein | — | 1,27 mm; vorzugsweise einen Schraubendreher von mindestens 70 mm Länge (einschließlich Heft) verwenden. |

# Austausch der Flüssigkristallanzeigen (LCDs)

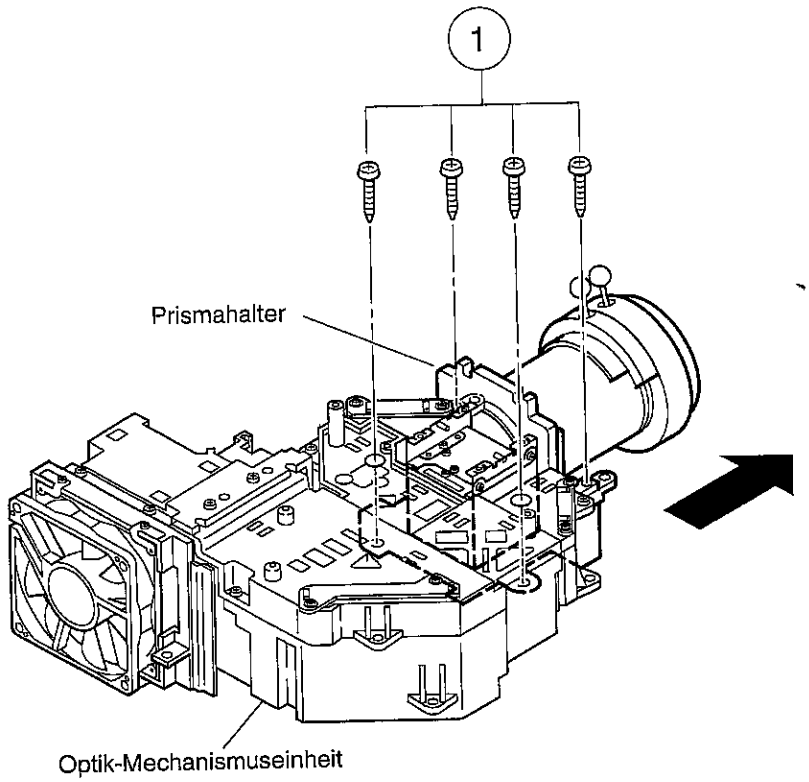
**Nach Ausbau des oberen Gehäuseteils und der Optik-Mechanismuseinheit:**

(1) Die vier Sicherungsschrauben des Prismahalters losdrehen und den Prismahalter von der Optik-Mechanismuseinheit trennen.

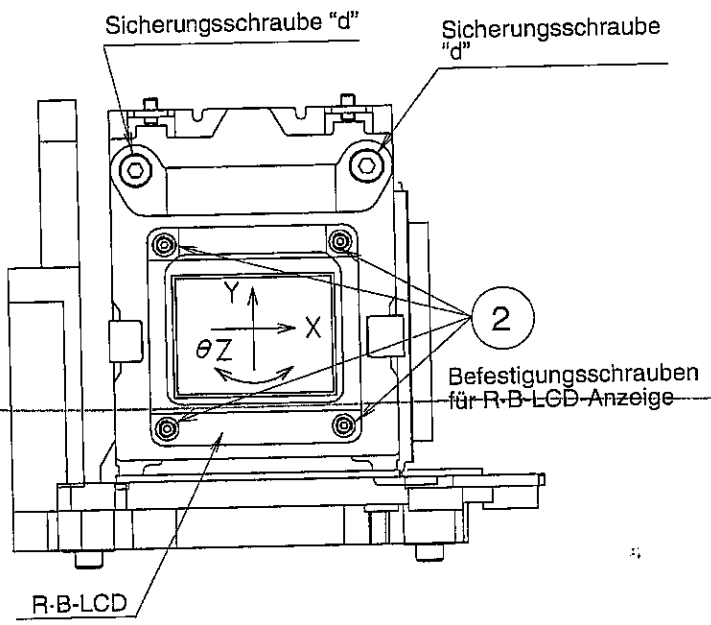
(2) Die Sicherungsschrauben der LCD-Anzeigen losdrehen (jeweils drei bei R-, G- und B-LCD-Anzeige). Danach die LCD-Anzeigen vom Prismahalter abnehmen.

(3) Die neue LCD-Anzeige in umgekehrter obiger Reihenfolge (1) und (2) wieder anbringen.

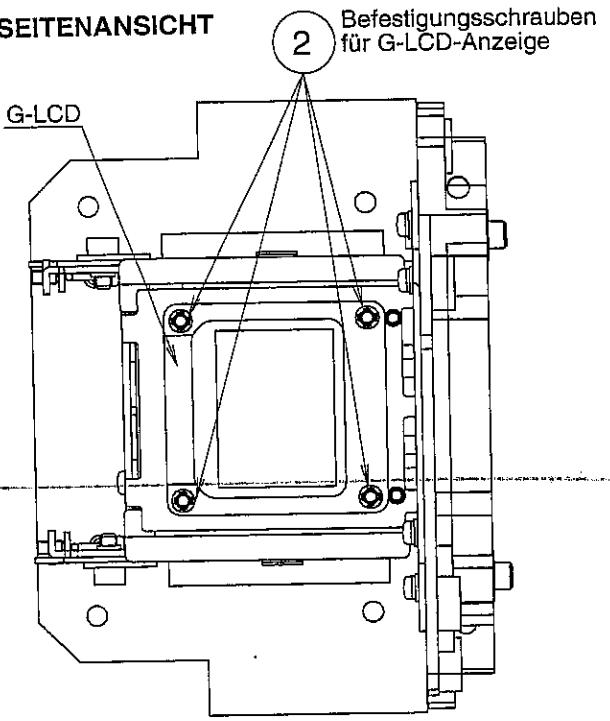
* Konvergenz und Brennpunkt einstellen. Es ist zu beachten, daß die G-LCD-Anzeige keine Konvergenzeinstellung erfordert und einen kleinen Einstellbereich in Z-Richtung aufweist.




**SEITENANSICHT (von innen)**




**SEITENANSICHT**

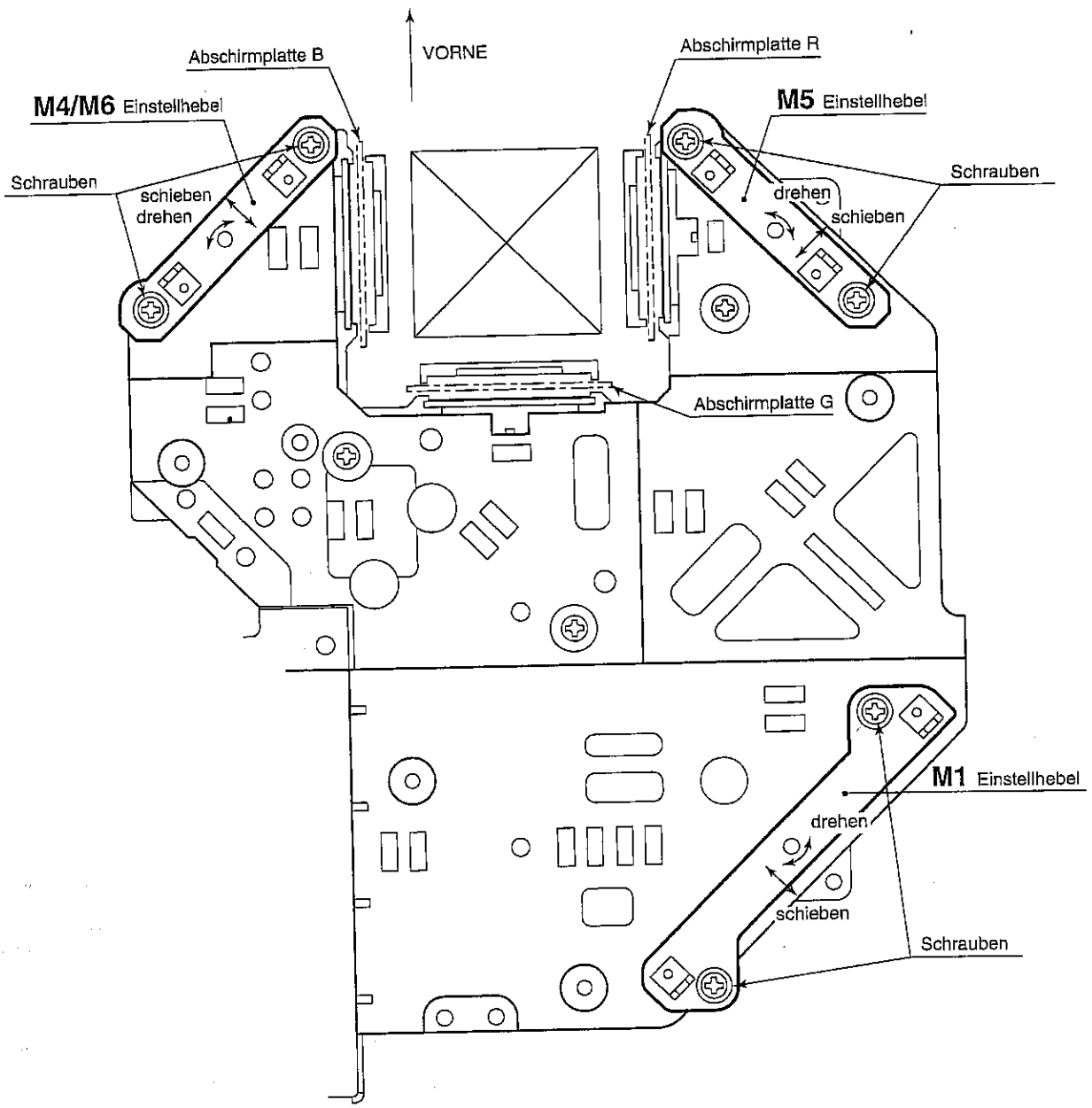


# Einstellung der optischen Achse der Spiegel (M1, M5 und M4/M6)

**Die optische Achse muß nachjustiert werden, wenn mit den R-, G- oder B-Spiegeln eine Verdunkelung auftritt. Im allgemeinen wird diese Einstellung erforderlich, wenn irgendeine zur Optik zählende Komponente ausgewechselt wird.**

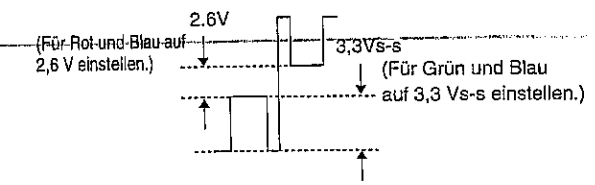
**Erforderliches Einstellverfahren, wenn eine der Platten ausgewechselt oder die Konvergenz eingestellt wurde:**

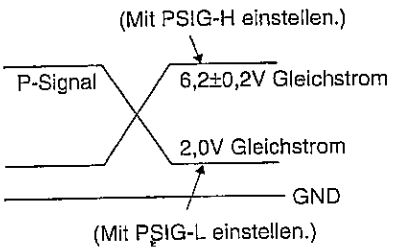
(1) Die Flachkabel von allen LCD-Tafeln abziehen.
(2) Die Lampe einschalten.
(3) Um den G-Spiegel einzustellen, sind die R- und B-Spiegel mit Abschirmplatten abzudecken. (Um das Licht zu blockieren, kann eine Visitenkarte oder etwas ähnliches verwendet werden.)
(4) Die Schraube des M1-Einstellhebels lockern.
(5) Das G-Bild am Bildschirm betrachten und den M1-Einstellhebel soweit verschieben, bis die Abdunkelung am Bildschirm verschwindet. Danach die Schraube wieder festziehen.
(6) Um den R-Spiegel einzustellen, sind die G- und B-Spiegel mit Abschirmplatten abzudecken und der M5-Einstellhebel einzustellen. Für den B-Spiegel sind die R- und G-Spiegel mit dem M6-Einstellhebel einzustellen. (Die obigen Schritte 4 und 5 durchführen.)
(7) Alle Abschirmplatten entfernen, die weiß sind. Sicherstellen, daß keine Verdunkelung vorherrscht.

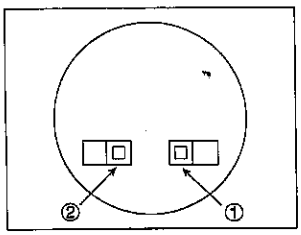
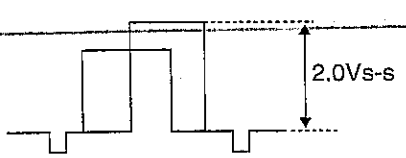


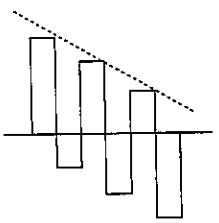
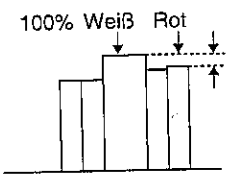
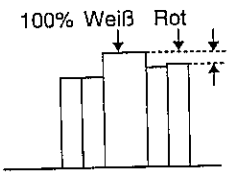
# ELEKTRISCHE EINSTELLUNG

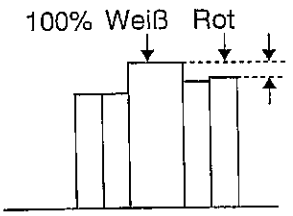
**Einen Signalgenerator, PC oder Macintosh-Computer am Projektor anschließen, um die in den Einstellbedingungen spezifizierten Signale zuzuführen.**

| Nr. | Einstellposition | Einstellbedingung | Einstellverfahren |
|---|---|---|---|
| 1 | **EEPROM-Initialisierung** | 1. Den Netzschalter einschalten und das Gerät für ca. 15 Minuten vorwärmen lassen. (Sicherstellen, daß die Kontrollampe aufleuchtet.) | • Folgende Einstellungen vornehmen: SW5101 drücken, um den Verarbeitungsmodus abzurufen, und um S2 im SSS-Menü auszuführen. Das System ist nun initialisiert (PC-Platine nicht miteingeschlossen). S1 darf nicht ausgeführt werden, da die PC-Platine sonst initialisiert wird. Um die Platine einzustellen, die Vorschriften in "Einstellung der Platine" folgen. (Siehe seite 74) |
| 2 | **3,3 V-Stromversorgungs-Einstellung** | 1. Den Netzschalter einschalten.<br>2. Den Digitalvoltmeter an TP1446 anschließen. | • R1649 einstellen, bis der Voltmeter 3,43 V ±0.03 Vs-s zeigt. |
| 3 | **2,5 V-Stromversorgungs-Einstellung** | 1. Den Netzschalter einschalten.<br>2. Den Digitalvoltmeter an TP1447 anschließen. | • R1652 einstellen, bis der Voltmeter 2,60 V ±0.05 Vs-s zeigt. |
| 4 | **R-Antrieb** | 1. Das Rotsignal (100%) zuführen und die folgende Wahl treffen.<br>Gruppe : Analog/Digital<br>Gegenstand: R-D | • Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird. |
| 5 | **B-Antrieb** | 1. Das Blausignal (100%) zuführen und die folgende Wahl treffen.<br>Gruppe : Analog/Digital<br>Gegenstand : B-D | • UDie Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird. |
| 6 | **G-Antrieb** | 1. Das Grünsignal (100%) zuführen und die folgende Wahl treffen.<br>Gruppe : Analog/Digital<br>Gegenstand : G-D | • Die Regelschalter oder die Tasten auf der Fernbedienung betätigen und die Daten so einstellen, daß das Signal "bitlos" (Störung) wird. |
| 7 | **Schwarzpegel-Signalamplitude für RGB 1-System (ungeradzahlig)** | 1. Die folgende Wahl treffen.<br>Gruppe : OUTPUT 1<br>Gegenstand : G1-BLK<br>G1-GAIN<br>Für Rot sind die Gegenstände R1-BLK und R1-GAIN zu wählen.<br>Für Blau sind die Gegenstände B1-BLK und B1-GAIN zu wählen.<br><br>2. Das Oszilloskop anschließen an<br>TP1101 für Rot.<br>TP1201 für Grün.<br>TP1301 für Blau. | • Den Gegenstand G1-GAIN wählen und den Schwarz-Spitzenpegel auf 3,3 ±0,1 Vs-s Gleichspannung einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.<br>• Danach den Gegenstand G1-BLK wählen und die Weiß-zu-Weiß Pegeldifferenz auf 2,6 ±0,1 V-Gleichstrom einstellen.<br>  <br><br>• Die Signalamplitude auf 3,3 ±0,1 Vs-s und die Weiß-zu-Weiß Pegeldifferenz auf 2,6 ±0,1 V-Gleichstrom für das Rot und Blau einstellen. |

| Nr. | Einstellposition | Einstellbedingung | Einstellverfahren |
|---|---|---|---|
| 8 | **P-SIGNAL** | 1. Das Oszilloskop anschließen an<br>TP1701 für Rot.<br>TP1702 für Grün.<br>TP1703 für Blau.<br><br>2. Die folgende Wahl treffen.<br>Gruppe : OUTPUT 2<br>Gegenstand : PSIG-H<br>PSIG-L | • Die P-SIG-Wellenform auf die nachstehende Form einstellen.<br>  <br><br>• Sicherstellen, daß die Wellenformen für Grün und Blau ähnlich wie die Wellenform für Rot sind.<br>• Sich vergewissern, daß der Nadelstreifen aller 12 Punkte nicht seitwärts am 10-Stufensignal erscheint. (Wenn weiß oder schwarze Nadelstreifen erscheinen, ist die Einstellung mit PSIG-H vorzunehmen.) |
| 9 | **Einstellung mit Geisterbildern** | 1. Das Geisterbild-Prüfmuster XGA60Hz (schwarz hervorgehobene Zeichen auf einem Halbton-RGB-Hintergrund) projizieren.<br>Gruppe: OUTPUT3<br><br>2. Einstellung GCK-PHASE<br>Sich vergewissern, daß die Einstellung auf 8 (Anfangswert) fixiert wurde.<br><br>3. Einstellung EN-WIDTH<br>Sich vergewissern, daß die Einstellung auf 8 (Anfangswert) fixiert wurde.<br><br>4. Einstellung ENR-PHASE (Geisterbild-Einstellung R-LCD)<br><br>5. Einstellung ENG-PHASE (Geisterbild-Einstellung G-LCD)<br><br>6. Einstellung ENB-PHASE (Geisterbild-Einstellung B-LCD) | • Einstellung ENR-PHASE (Geisterbild-Einstellung R-LCD)<br>① Den Einstellwert erhöhen, bis ein Geisterbild (siehe Hinweis) auf der linken Seite der schwarzen Zeichen auf dem R-Halbton-Hintergrund sichtbar wird.<br>② Den Einstellwert schrittweise reduzieren, bis das Geisterbild auf der linken Seite verschwindet (des obigen Schritts ①).<br>③ Den Einstellwert um einen weiteren Punkt reduzieren.<br>• Einstellung ENG-PHASE (Geisterbild-Einstellung G-LCD)<br>Das G-Geisterbild nach den gleichen Anweisungen wie im obigen Schritt 1 einstellen.<br>• Einstellung ENB-PHASE (Geisterbild-Einstellung B-LCD)<br>Das G-Geisterbild nach den gleichen Anweisungen wie im obigen Schritt 1 einstellen.<br>**Hinweis:** Left-hand ghost image: Characters are shown double 12 dots left from the real characters.<br>**Referenz:** Diese Einstellung muß vorgenommen werden, da ein EPSON LCD-Bildschirm eine Variation von 1 oder 2 Punkten aufweisen kann, abhängig von der Herstellungsserie. |
| 10 | **Muster- und Halteimpulsphase**<br>**RCK-PHASE**<br>**GCK-PHASE**<br>**BCK-PHASE** | 1. Das XGA-Schwarzwertsignal (75 Hz) zuführen.<br>2. Folgende Wahl vornehmen:<br>Gruppe : OUTPUT 3<br>Gegenstand: SH-PHASE<br>(Den Standardpegel auf 2 halten.)<br>Die RCK-, GCK- und BCK-Phaseneinstellungen auf 8 fixieren. | • Die Einstellung mit den Regelschaltern oder den Fernbedienungstasten vornehmen. Dabei die Einstellung so durchführen, daß die "OUTPUT 3"-Zeichen nicht verschwommen sind bzw. überlappen. Wenn die Zeichen verschwommen sind oder überlappen, muß die Einstellung im Bereich zwischen 7 bis 9 ausgeführt werden. |

| Nr. | Einstellposition | Einstellbedingung | Einstellverfahren |
|---|---|---|---|
| 11 | **Einstellung der RGB-Gegenspannung** | 1. Das 25%-Schwarz/Rot-Streifensignal (XGA) zuführen.<br>2. Folgende Wahl vornehmen:<br>Gruppe : OUTPUT 3<br>Gegenstand : RC (R)<br>und<br>Gruppe : OUTPUT 3<br>Gegenstand : RC-INV (R) | • Die Daten einstellen, um das Bildflimmern zu reduzieren. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.<br>• Die gleichen Einstellungen für BC (B), GC (G), RC-INV (B) und RC-INV (G) vornehmen.<br>• Sicherstellen, daß beide Seiten rechts und links am Bildschirm mittig ausgerichtet sind. Falls dies nicht der Fall ist, muß der Bildschirm so eingestellt werden, daß das Bild rechts und links identisch ist. |
| 12 | **Regenerierung-seinstellung für RGB-Abstufung** | 1. Das SMPTE-Signalmustersignal (nur Grün) zuführen (XGA).<br>Gruppe : OUTPUT 1<br>Gegenstand : G1-BLK | • Die G-BLK-Daten einstellen, bis die erste Abstufung ①(95% und 100% weiß; nachfolgend aufgeführt) geringfügig erkannt werden kann. Sicherstellen, daß die zweite Abstufung ②(0% und 5% schwarz) sichtbar ist.<br>  <br> |
| 13 | **RGB-Weißbalance** | 1. Das Grauskalensignal (32 Abstufungen) zuführen (XGA).<br>Gruppe : OUTPUT 1<br>Gegenstand : R1-BLK (R)<br>B1-BLK (B) | • Die Posten R1-BLK und B1-BLK wählen und die Schwarzbalance der Abstufung einstellen. |
| 14 | **Horizontal center** | 1. Das NTSC-Monoskopsignal zuführen.<br>2. Gruppe : VIDEO 2<br>Gegenstand : N358-DLY (4)<br>N443-DLY (0)<br>PAL-DLY (3)<br>SECAM-DLY (0)<br>Sicherstellen, daß die Einstellungen richtigeingestellt sind.<br>3. Gruppe : VIDEO 1<br>Gegenstand : NTSC-H | • Die Daten einstellen, um den gleichen Überscan-Wert zu erzielen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen. |
| 15 | **Einstellung des Videobilds** | 1. Das Trennfarbbalkensignal zuführen.<br>Gruppe : VIDEO 1<br>Gegenstand : PICTURE<br>2. Ein Oszilloskop zwischen Stift (2) von P801 und GND anschließen. | • Die Schwarz-zu-Weiß Signalpegeldifferenz (100%) auf 2,0 ±0,02 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.<br>  <br> |

| Nr. | Einstellposition | Einstellbedingung | Einstellverfahren |
|---|---|---|---|
| 16 | **Einstellung der Bildhelligkeit** | 1. Das Grundfrequenzsignal (Trennfarbbalkensignal) zuführen. (Das ON-AIR-Signal ist nicht zulässig, da es zu viele Störungen erzeugt.)<br>Gruppe : VIDEO2<br>Gegenstand :VROS/VGOS/VBOS<br>2. Den Regelschalter oder die Stummschalttaste auf der Fernbedienung drücken, um die Gammakorrektur auf die Verarbeitungseinstellung einzustellen. | • Mit den Regelschaltern am Gerät oder über die Fernbedienung die Daten so einstellen, daß das Schwarzsignal "bitlos" wird. |
| 17 | **Video-AGC** | 1. Das getrennte Farbbalkensignal zuführen.<br>Gruppe: VIDEO 1<br>Gegenstand: AGC | • Unter Verwendung der Steuerschalter oder der Fernbedienungstasten die Einstellung so vornehmen, daß das Weißsignal bitlos wird. |
| 18 | **Farbton** | 1. Das Trennfarbbalkensignal zuführen.<br>Gruppe : VIDEO 1<br>Gegenstand : TINT<br>2. Das Oszilloskop am Stift(4) von P801 anschließen. | • Die Daten so einstellen, daß die -(B-Y)-Welle geradlinig abfällt. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.<br>  <br>• Nach der Einstellung den Wert von TINT um 3 Punkte erhöhen. |
| 19 | **NTSC-Farbsättigungspegel** | 1. Das Trennfarbbalkensignal zuführen.<br>Gruppe : VIDEO 1<br>Gegenstand : N-COLOR<br>2. Das Oszilloskop am Stift(1) von P801 anschließen. | • Die Differenz (100%) des Weiß- und Rotanteils auf 0,00 ±0,05 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.<br>(wie bei 100% Weißpegel)<br>  |
| 20 | **PAL-Farbsättigungspegel** | 1. Das PAL-Farbbalkensignal zuführen.<br>Gruppe : VIDEO 1<br>Gegenstand : P-COLOR<br>2. Das Oszilloskop am Stift(1) von P801 anschließen. | • Die Differenz (100%) des Weiß- und Rotanteils auf 0,2 ±0,05 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.<br>  |

| Nr. | Einstellposition | Einstellbedingung | Einstellverfahren |
|---|---|---|---|
| 21 | **SECAM-**<br>Farbsättigungspegel | 1. Das SECAM-Farbbalkensignal zuführen.<br>Gruppe : VIDEO 1<br>Gegenstand : S-COLOR<br>2. Das Oszilloskop am Stift(1) von P801 anschließen. | • Die Daten-Differenz (100%) des Weiß- und Rotanteils auf 0,2 ±0,05 Vs-s einstellen. Hierfür die Regelschalter oder die Tasten auf der Fernbedienung betätigen.<br>  |
| 22 | **Einstellung der Signal-Amplitude des**<br>Video-Eingabefelds | 1. Das NTSC-10-Stufensignal zuführen.<br>2. Die Gruppe und den Gegenstand wählen:<br>Gruppe: VIDEO2<br>Gegenstand: R1-GAIN<br>B1-GAIN<br>3. Das Oszilloskop mit TP1101 (R) und TP1201 (G) verbinden.<br>4. Für Blau das Oszilloskop mit TP1301 (B) und TP1201 (G) verbinden. | • R1-GAIN wählen, dann die Amplitude des R-Signals und die Amplitude des G-Signals auf den gleichen Wert einstellen.<br>• Die gleiche Einstellung für das blaue Signal vornehmen. |
| 23 | **Video-Weißbalance** | 1. Das NTSC-Monoskopsignal zuführen.<br>Gruppe : VIDEO 2<br>Gegenstand : R1-BLK<br>B1-BLK | • Mit den Regelschaltern am Gerät oder über die Fernbedienung die Einstellung so vornehmen, daß die gesamte Bildschirmfläche gleichmäßig unbunt erscheint. |
| 24 | **Einstellung des**<br>DTV-Weißabgleichs | 1. Das Monoskopmuster-Signal zuführen.<br>2. Gruppe: DTV<br>Gegenstand: CR-OFFSET<br>CB-OFFSET | • Mit den Regelschaltern am Gerät oder über die Fernbedienung die Einstellung so vornehmen, daß die gesamte Bildschirmfläche gleichmäßig unbunt erscheint. |
| 25 | **Setup** | 1. Gruppe: VIDEO1<br>Gegenstand: SET UP B<br>SET UP C | • Sich vergewissern, daß die Einstellungen wie folgt vorgenommen wurden: 11 für SET UP B, und 2 für SET UP C. |
| 26 | **Automatische Farbkorrektur** | 1. Unter Verwendung des automatischen Farbkorrektur-Systems (ccdc) die automatische Farbkorrektur vornehmen. | • Sich vergewissern, daß am Bildschirm keine Farbabweichungen auftreten. |
| 27 | **Leistungsprüfung des Farbsystems** | 1. Das Farbbalkensignal empfangen. | • Im Verarbeitungsmodus L1 anwählen. Die Farbe und die Tönung überprüfen. |
| 28 | **Leistungsprüfung des Videosystems** | 1. Das Monoskopsignal empfangen. | • Im Verarbeitungsmodus L2 anwählen. Die Farbe und die Tönung überprüfen. |

| Nr. | Einstellposition | Einstellbedingung | Einstellverfahren |
|---|---|---|---|
| 29 | **Leistungsprüfung des Audiosystems** | | • Im Verarbeitungsmodus L3 anwählen. Baß, Höhen und Balance überprüfen. |
| 30 | **RGB-Leistungsprüfung** | 1. Das RGB-Signal empfangen. | • Im Verarbeitungsmodus L4 anwählen. Bild, Helligkeit, Rot, Blau, Takt, Phase, Horizontal- und Vertikalposition überprüfen. |
| 31 | **Leistungsprüfung Off-Timer** | | • Im Verarbeitungsmodus OFF anwählen. Sicherstellen, daß der Off-Timer bei "5" (Minuten) beginnt, jede Minute in 1 sec Intervallen herunterzählt und das Gerät bei "0" ausschaltet. |
| 32 | **Thermistor-Leistungsprüfung** | 1. Den Thermistor mit einem Fön erwärmen. | • Sicherstellen, daß "TEMP" angezeigt wird. |
| 33 | **Automatische Synchronisierung** | 1. Das PHASE-Prüfmustersignal empfangen. | • Den VGA/SVGA/XGA/SXGA-Modus einschalten und sicherstellen, daß Taktung und Phase sowie Horizontal- und Vertikalposition automatisch einstellbar sind. |
| 34 | **Leistungsprüfung für Keystone-Korrektur** | | • Sicherstellen, daß die Keystone-Korrektur gut funktioniert. |
| 35 | **Werkseinstellungen** | | • Folgende Einstellungen durchführen: |

| Verarbeitung seinstellung | Fernbedienungseinstellung |
|---|---|
| S3 | "Werkseinstellung 3"(XG-C40XE) |
| S4 | "Werkseinstellung 4"(XG-C40XU) |

# EINSTELLUNG DER PC-PLATINE (CPCi-0047CE16. PC I/F Einheit)

**1. RGB-Pegeleinstellung**

1) Einen Signalgenerator an den Projektor anschließen (mit 0047-Platine bestückt). Den Signalgeneratorausgang in den XGA-Modus bringen (VESA 1024x768, 60 Hz, 32-Farbton-Wellenform). Die Ausgangsamplitude am Anschluß P8404 auf 700 mVs-s einstellen.
2) Den Projektoreingang in den RGB1-Modus bringen.
3) Den Verarbeitungsmodus durch Betätigen der Taste am Projektor abrufen.
4) „A/D" am Hauptmenü-Bildschirm anwählen.
5) „R-BRIGHT" in der „A/D"-Gruppe wählen und „R-BRIGHT" so einstellen, daß sich keine sichtbaren Pixel rund um den Bildschirm bilden.
6) Die gleichen Einstellungen mit „G-BRIGHT" und „B-BRIGHT" durchführen.
7) Danach die „R-D"-Gruppe anwählen und die Einstellungen der obigen Posten so ausführen, daß sich keine sichtbaren Pixel rund um den Bildschirm bilden.
8) Nun die Gruppen „G-D" und „B-D" anwählen und die gleichen Einstellungen durchführen.

Nun zur DTV-Pegeleinstellung weitergehen.

**2. DTV-Pegeleinstellung**

1) Den Signalgeneratorausgang auf den „nur Grün-Modus" einstellen.
2) „DTV" auf dem Hauptmenü-Bildschirm für den Verarbeitungsmodus anwählen.
3) Den Posten „G-BRIGHT" in der „DTV"-Gruppe anwählen und die „G-BRIGHT"-Einstellung so durchführen, daß sich keine sichtbaren Pixel rund um den Bildschirm bilden.
4) Das gleiche mit den Einstellungen „CB-OFFSET" und „CR-OFFSET" ausführen.

Die 0047-Platine im Projektor ist nun für die Auslieferung bereit.

Hinweis: VIDEO-Eingangseinstellungen sind nicht erforderlich.

## Vorsichtshinweise zur Wartung

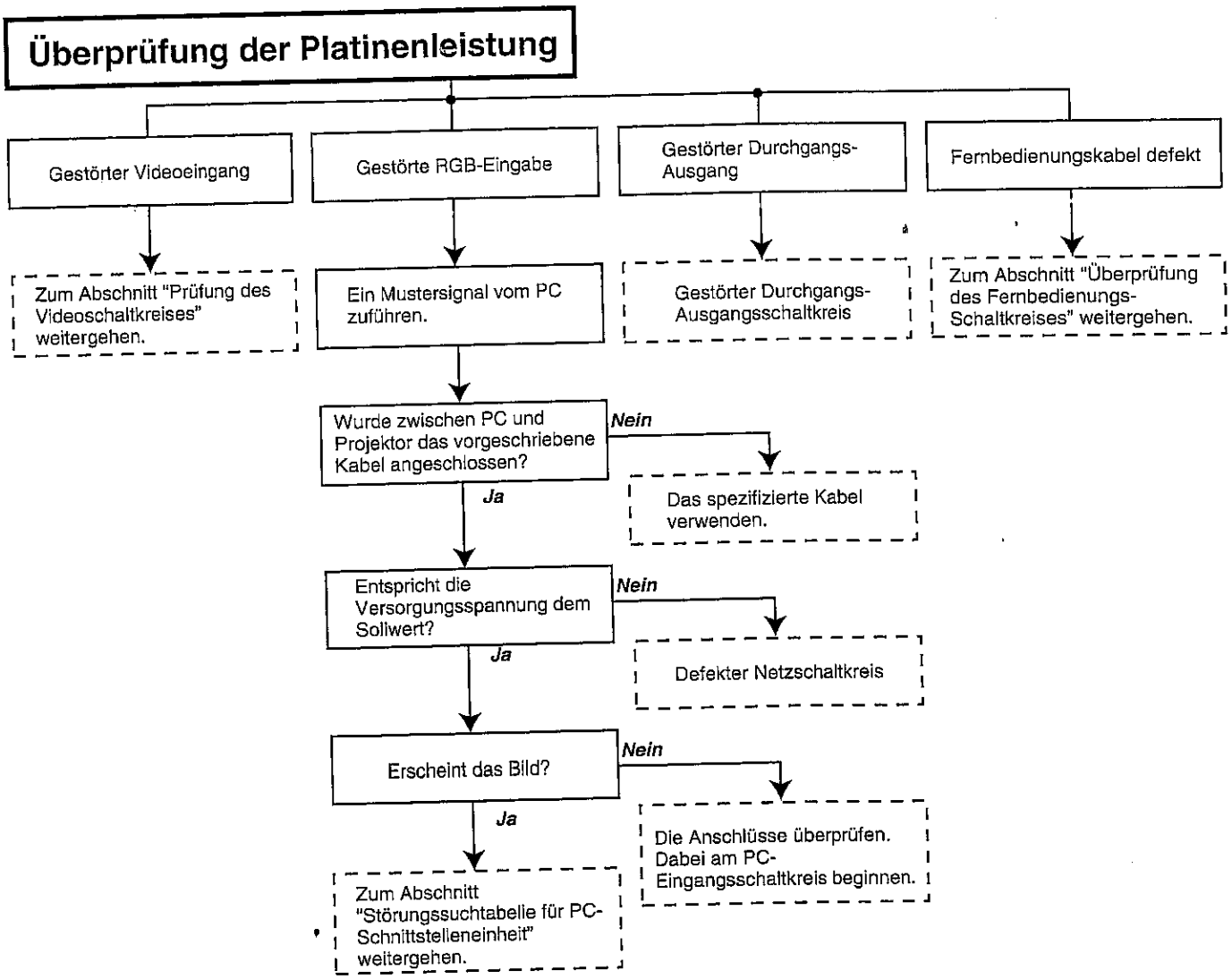
Wenn sich bei Wartungsarbeiten am Gerät die Konvergenz verschiebt, den Prozeßmodus aufrufen und die nachfolgende Gruppe und Gegenstände wählen.

Gruppe: NOKO

Gegenstand: R-CNV-H, R-CNV-V
G-CNV-H, G-CNV-V
B-CNV-H, B-CNV-V

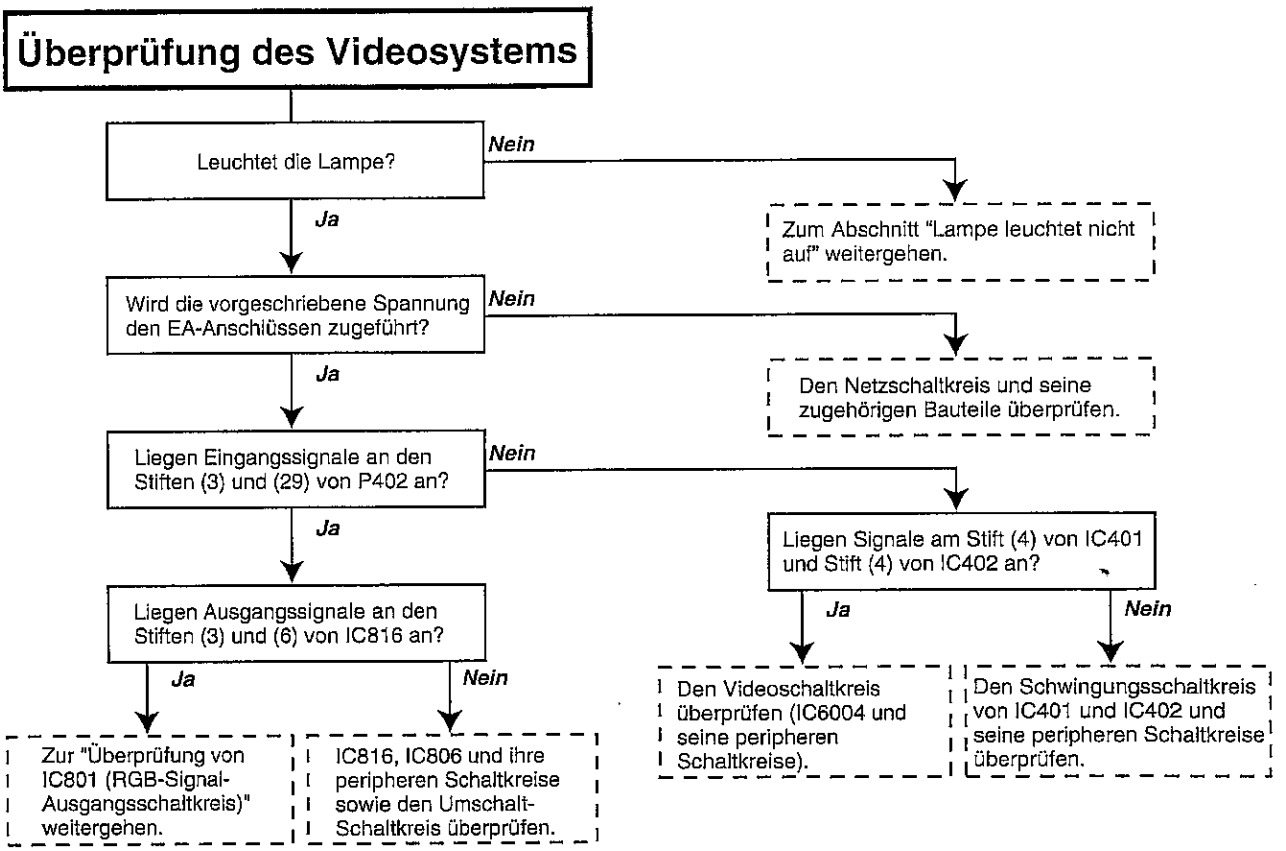
(H und V repräsentieren die horizontalen bzw. vertikalen Einstellungen.)
Die obigen Einstellungen in einem Bereich zwischen 0 und 4 vornehmen.

# FEHLERSUCHTABELLE

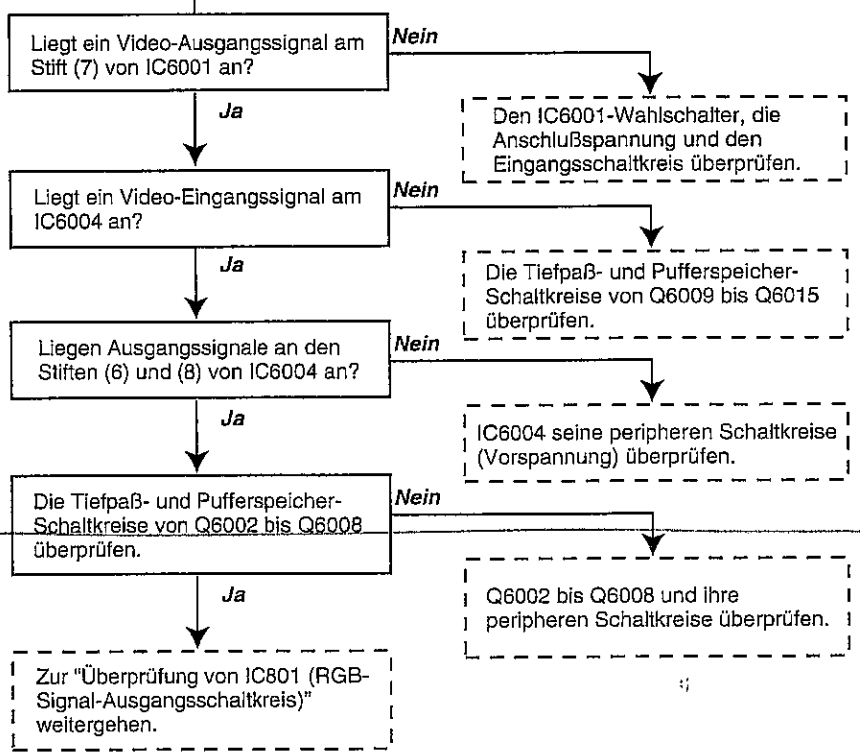


# FEHLERSUCHTABELLE (Fortsetzung)

## Überprüfung des Videosystems

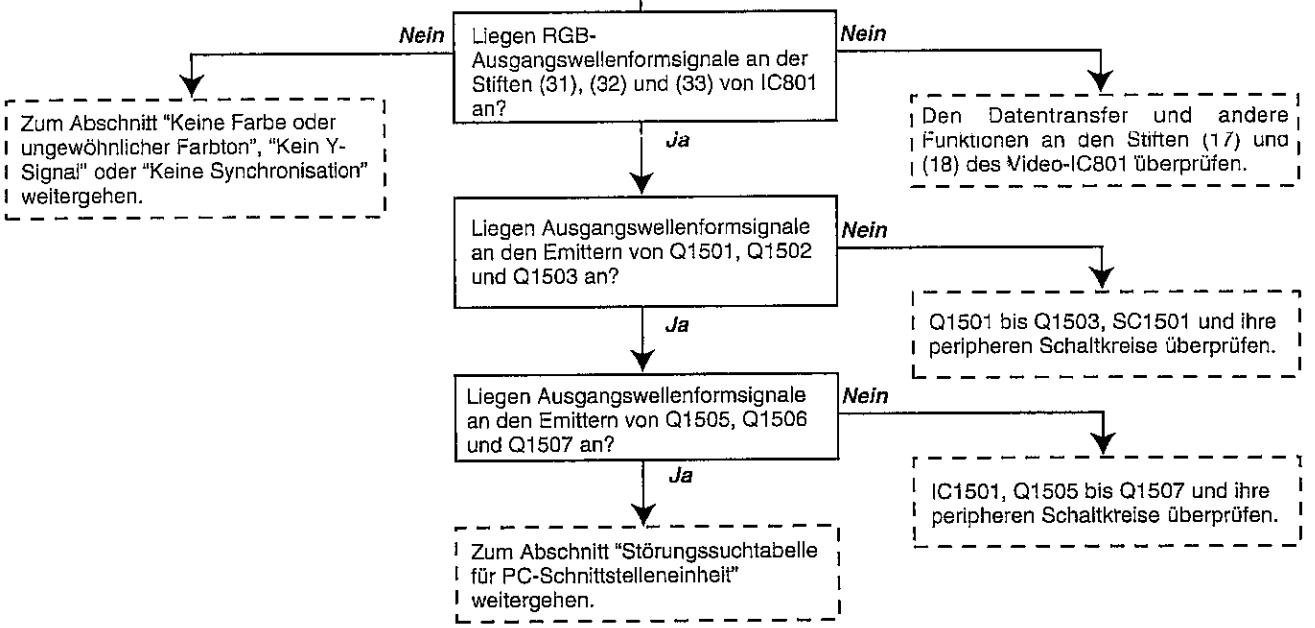

Leuchtet die Lampe?
Nein
Ja
Zum Abschnitt "Lampe leuchtet nicht auf" weitergehen.
Wird die vorgeschriebene Spannung den EA-Anschlüssen zugeführt?
Nein
Ja
Den Netzschaltkreis und seine zugehörigen Bauteile überprüfen.
Liegen Eingangssignale an den Stiften (3) und (29) von P402 an?
Nein
Ja
Liegen Signale am Stift (4) von IC401 und Stift (4) von IC402 an?
Ja
Nein
Liegen Ausgangssignale an den Stiften (3) und (6) von IC816 an?
Ja
Nein
Den Videoschaltkreis überprüfen (IC6004 und seine peripheren Schaltkreise).
Den Schwingungsschaltkreis von IC401 und IC402 und seine peripheren Schaltkreise überprüfen.
Zur "Überprüfung von IC801 (RGB-Signal-Ausgangsschaltkreis)" weitergehen.
IC816, IC806 und ihre peripheren Schaltkreise sowie den Umschalt-Schaltkreis überprüfen.

## Überprüfung des Videoschaltkreises

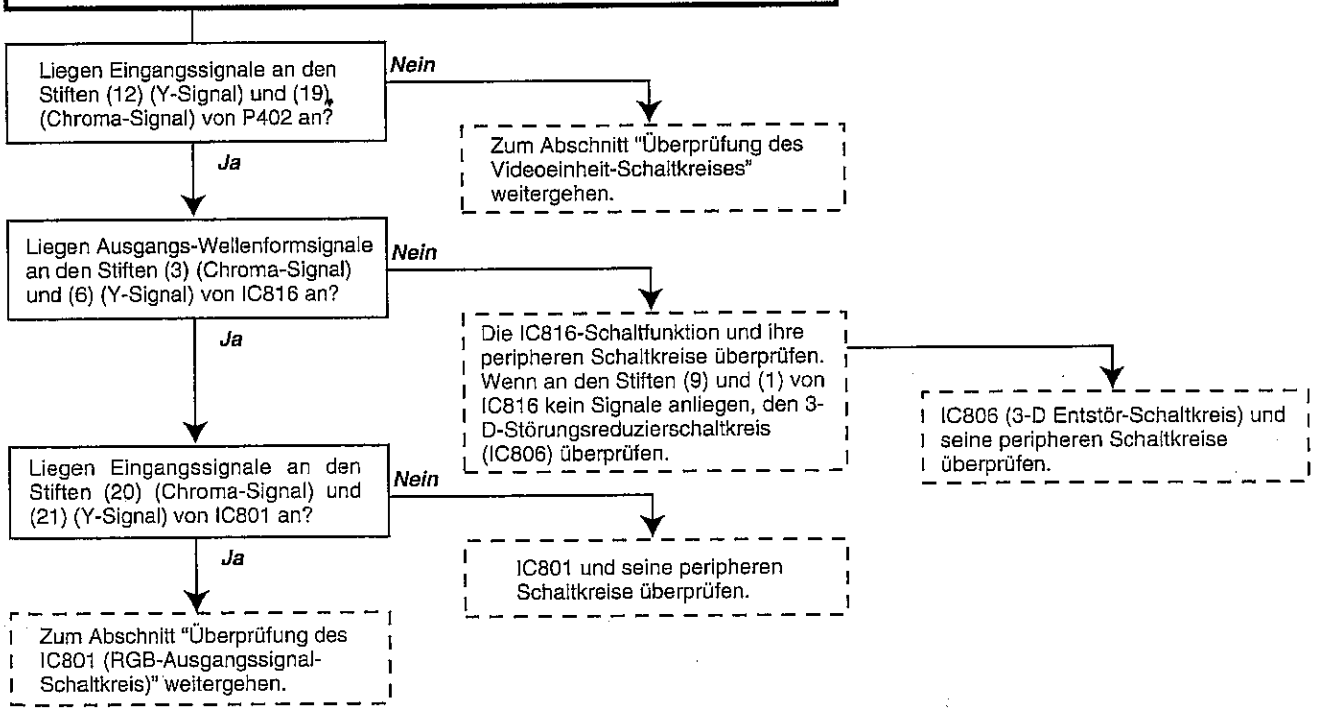

Liegt ein Video-Ausgangssignal am Stift (7) von IC6001 an?
Nein
Ja
Den IC6001-Wahlschalter, die Anschlußspannung und den Eingangsschaltkreis überprüfen.
Liegt ein Video-Eingangssignal am IC6004 an?
Nein
Ja
Die Tiefpaß- und Pufferspeicher-Schaltkreise von Q6009 bis Q6015 überprüfen.
Liegen Ausgangssignale an den Stiften (6) und (8) von IC6004 an?
Nein
Ja
IC6004 seine peripheren Schaltkreise (Vorspannung) überprüfen.
Die Tiefpaß- und Pufferspeicher-Schaltkreise von Q6002 bis Q6008 überprüfen.
Nein
Ja
Q6002 bis Q6008 und ihre peripheren Schaltkreise überprüfen.
Zur "Überprüfung von IC801 (RGB-Signal-Ausgangsschaltkreis)" weitergehen.

# FEHLERSUCHTABELLE (Fortsetzung)

## Überprüfung des IC801 (RGB-Signal-Ausgangsschaltkreis)

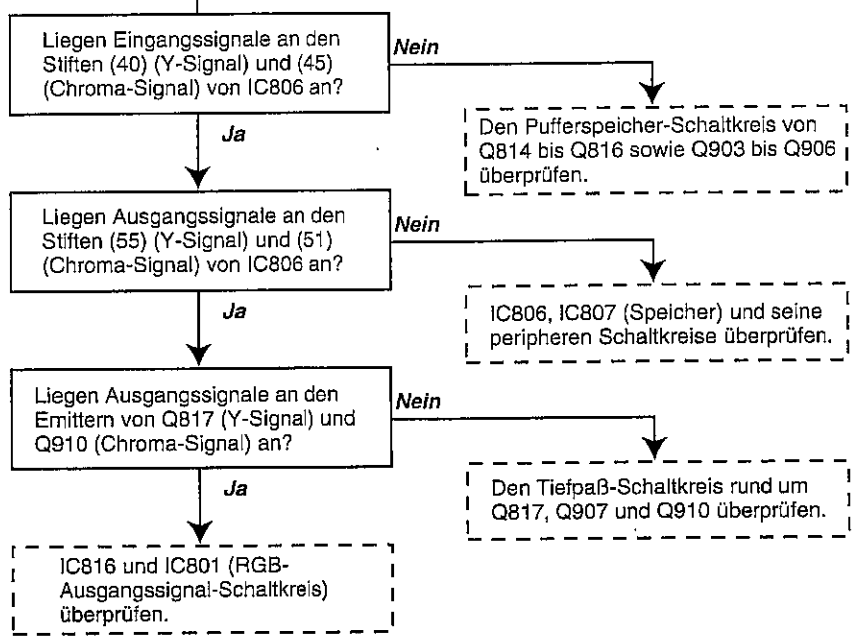

Liegen RGB-Ausgangswellenformsignale an der Stiften (31), (32) und (33) von IC801 an?
Nein
Zum Abschnitt "Keine Farbe oder ungewöhnlicher Farbton", "Kein Y-Signal" oder "Keine Synchronisation" weitergehen.
Nein
Den Datentransfer und andere Funktionen an den Stiften (17) und (18) des Video-IC801 überprüfen.
Ja
Liegen Ausgangswellenformsignale an den Emittern von Q1501, Q1502 und Q1503 an?
Nein
Q1501 bis Q1503, SC1501 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangswellenformsignale an den Emittern von Q1505, Q1506 und Q1507 an?
Nein
IC1501, Q1505 bis Q1507 und ihre peripheren Schaltkreise überprüfen.
Ja
Zum Abschnitt "Störungssuchtabelle für PC-Schnittstelleneinheit" weitergehen.

## Überprüfung der Chroma- und Y-Signale des IC801 (RGB-Signalausgabe)

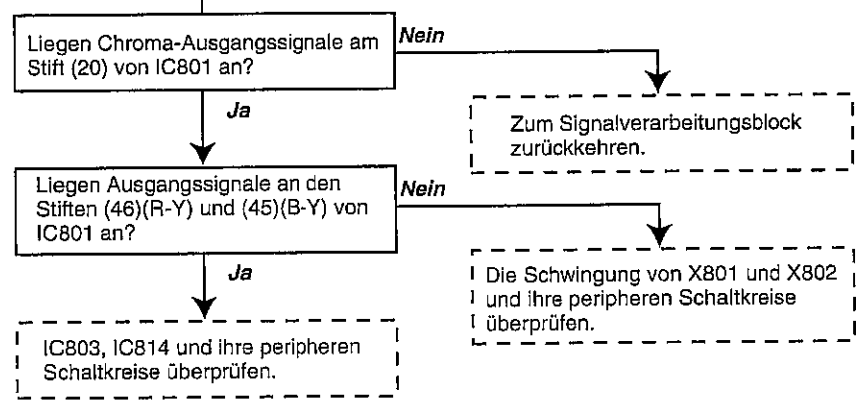

Liegen Eingangssignale an den Stiften (12) (Y-Signal) und (19) (Chroma-Signal) von P402 an?
Nein
Zum Abschnitt "Überprüfung des Videoeinheit-Schaltkreises" weitergehen.
Ja
Liegen Ausgangs-Wellenformsignale an den Stiften (3) (Chroma-Signal) und (6) (Y-Signal) von IC816 an?
Nein
Die IC816-Schaltfunktion und ihre peripheren Schaltkreise überprüfen. Wenn an den Stiften (9) und (1) von IC816 kein Signale anliegen, den 3-D-Störungsreduzierschaltkreis (IC806) überprüfen.
IC806 (3-D Entstör-Schaltkreis) und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale an den Stiften (20) (Chroma-Signal) und (21) (Y-Signal) von IC801 an?
Nein
IC801 und seine peripheren Schaltkreise überprüfen.
Ja
Zum Abschnitt "Überprüfung des IC801 (RGB-Ausgangssignal-Schaltkreis)" weitergehen.

# FEHLERSUCHTABELLE (Fortsetzung)

## Überprüfung des IC806 (3-D Störungs-Reduzierschaltkreis) und seiner peripheren Schaltkreise

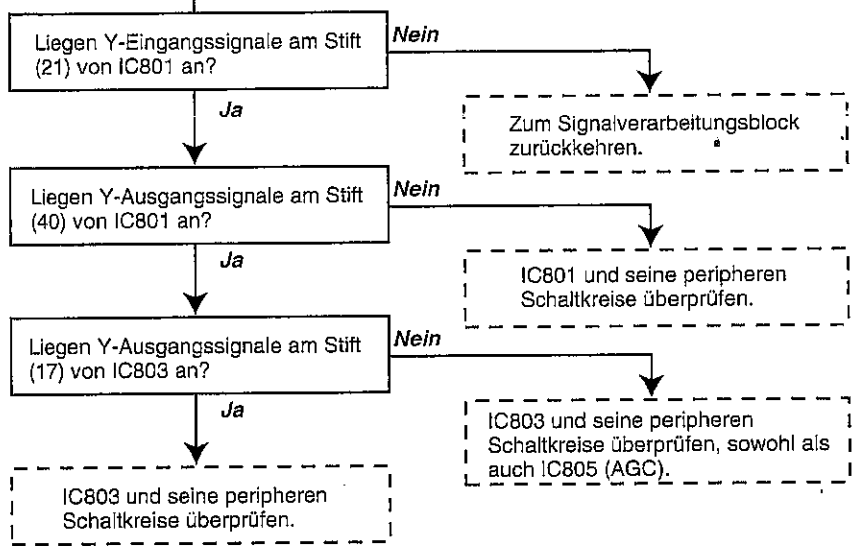

Liegen Eingangssignale an den Stiften (40) (Y-Signal) und (45) (Chroma-Signal) von IC806 an?
Nein
Den Pufferspeicher-Schaltkreis von Q814 bis Q816 sowie Q903 bis Q906 überprüfen.
Ja
Liegen Ausgangssignale an den Stiften (55) (Y-Signal) und (51) (Chroma-Signal) von IC806 an?
Nein
IC806, IC807 (Speicher) und seine peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangssignale an den Emittern von Q817 (Y-Signal) und Q910 (Chroma-Signal) an?
Nein
Den Tiefpaß-Schaltkreis rund um Q817, Q907 und Q910 überprüfen.
Ja
IC816 und IC801 (RGB-Ausgangssignal-Schaltkreis) überprüfen.

## Keine Farbe oder ungewöhnlicher Farbton (NTSC, PAL)

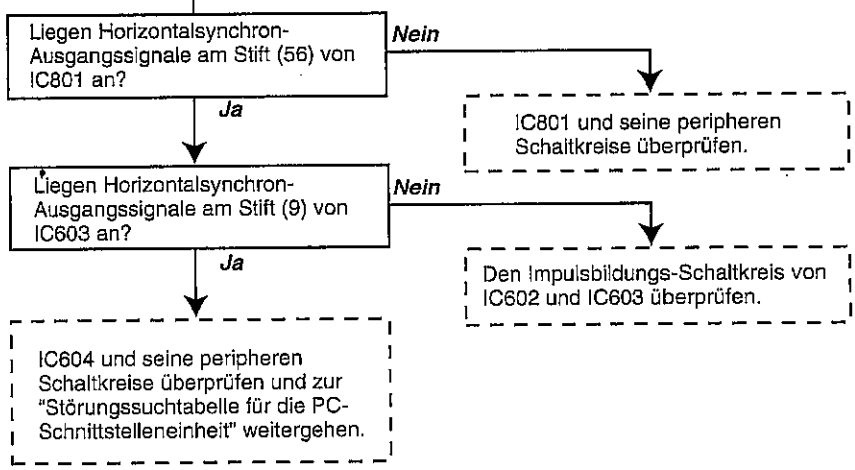

Liegen Chroma-Ausgangssignale am Stift (20) von IC801 an?
Nein
Zum Signalverarbeitungsblock zurückkehren.
Ja
Liegen Ausgangssignale an den Stiften (46)(R-Y) und (45)(B-Y) von IC801 an?
Nein
Die Schwingung von X801 und X802 und ihre peripheren Schaltkreise überprüfen.
Ja
IC803, IC814 und ihre peripheren Schaltkreise überprüfen.

# FEHLERSUCHTABELLE (Fortsetzung)

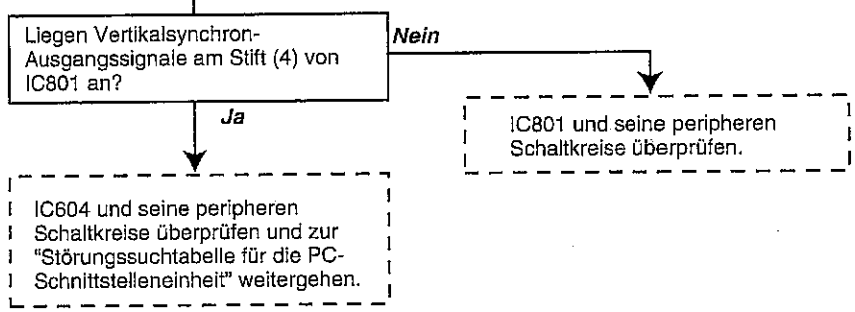
## Kein oder ungewöhnliches Y-Signal


Liegen Y-Eingangssignale am Stift (21) von IC801 an?
Nein
Ja
Zum Signalverarbeitungsblock zurückkehren.
Liegen Y-Ausgangssignale am Stift (40) von IC801 an?
Nein
Ja
IC801 und seine peripheren Schaltkreise überprüfen.
Liegen Y-Ausgangssignale am Stift (17) von IC803 an?
Nein
Ja
IC803 und seine peripheren Schaltkreise überprüfen, sowohl als auch IC805 (AGC).
IC803 und seine peripheren Schaltkreise überprüfen.

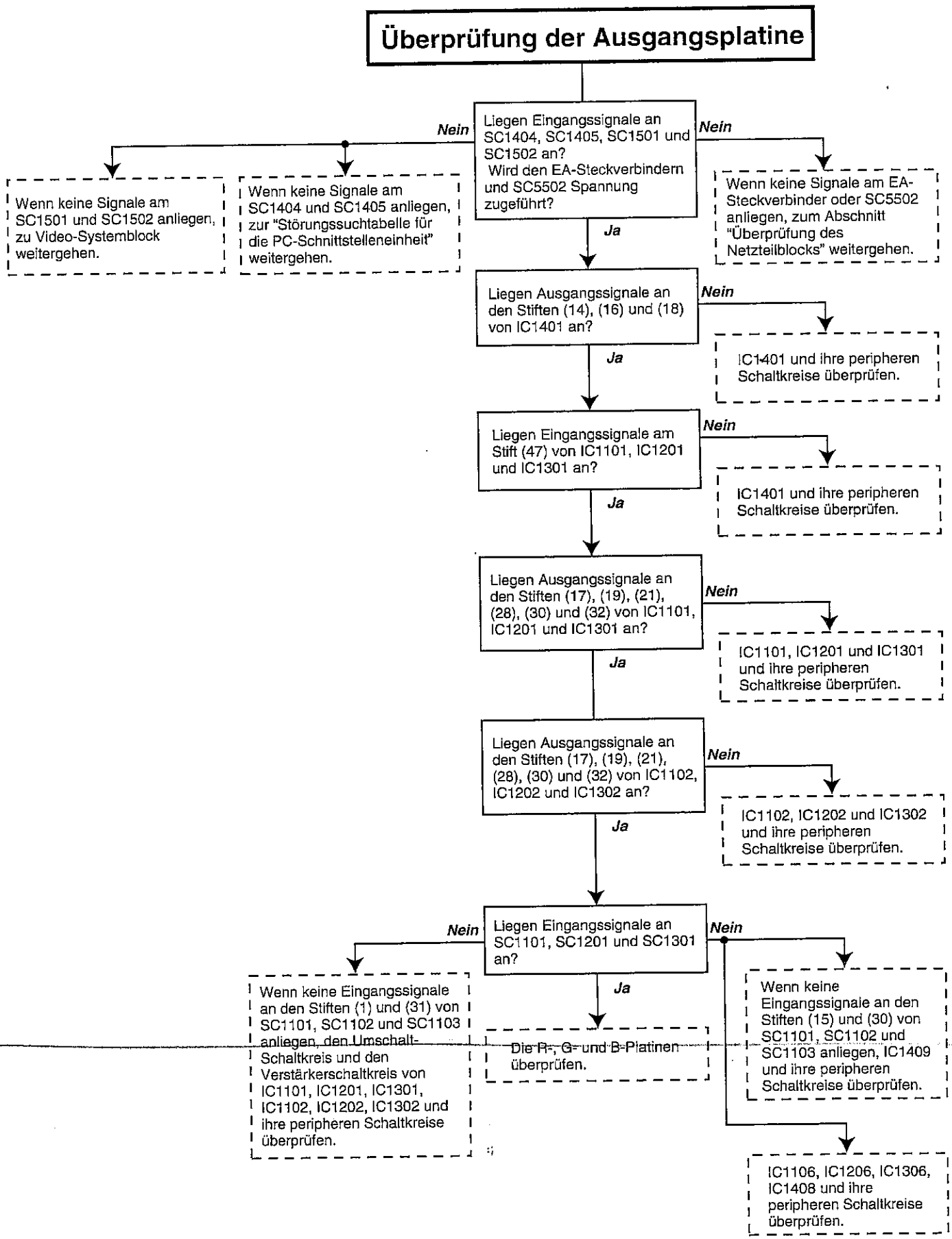
## Keine oder ungewöhnliche Horizontal-Synchronisation


Liegen Horizontalsynchron-Ausgangssignale am Stift (56) von IC801 an?
Nein
Ja
IC801 und seine peripheren Schaltkreise überprüfen.
Liegen Horizontalsynchron-Ausgangssignale am Stift (9) von IC603 an?
Nein
Ja
Den Impulsbildungs-Schaltkreis von IC602 und IC603 überprüfen.
IC604 und seine peripheren Schaltkreise überprüfen und zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.

## Keine oder ungewöhnliche Vertikal-Synchronisation

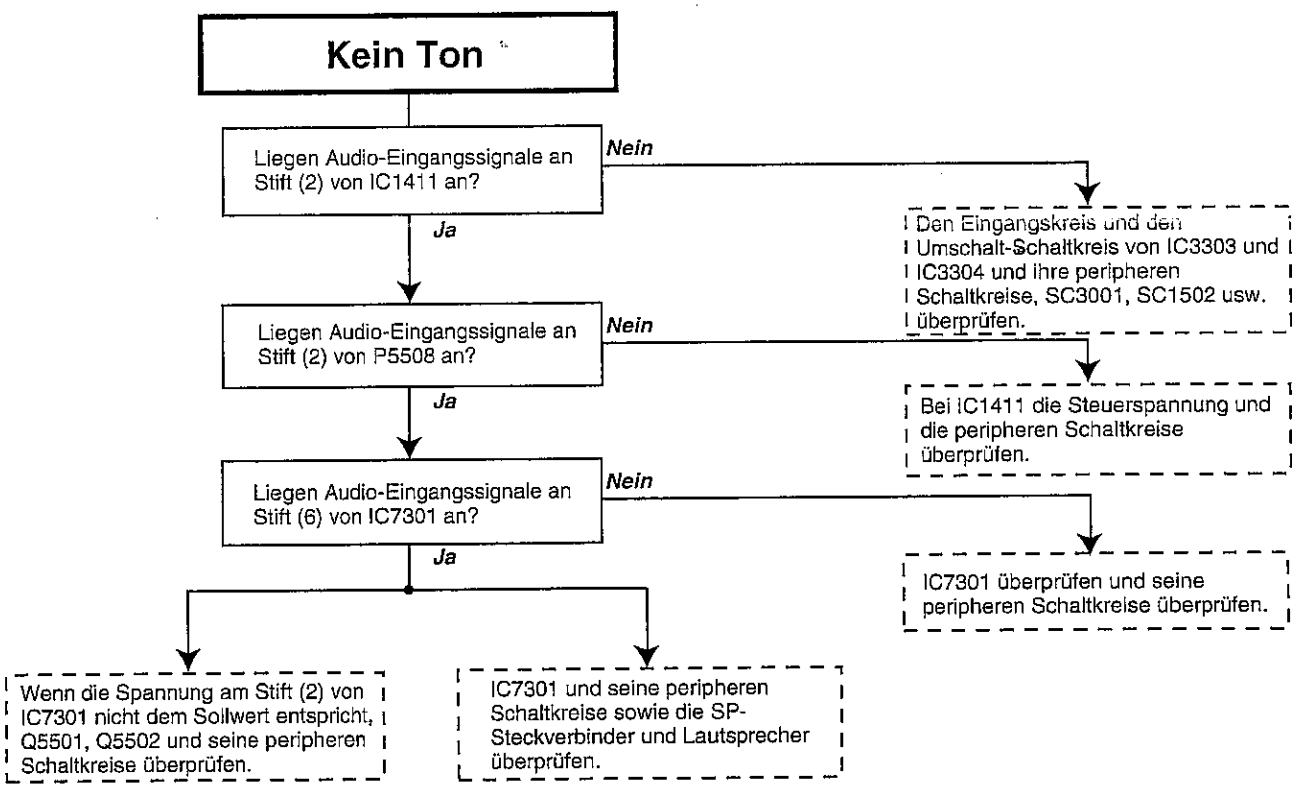

Liegen Vertikalsynchron-Ausgangssignale am Stift (4) von IC801 an?
Nein
Ja
IC801 und seine peripheren Schaltkreise überprüfen.
IC604 und seine peripheren Schaltkreise überprüfen und zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.

# FEHLERSUCHTABELLE (Fortsetzung)

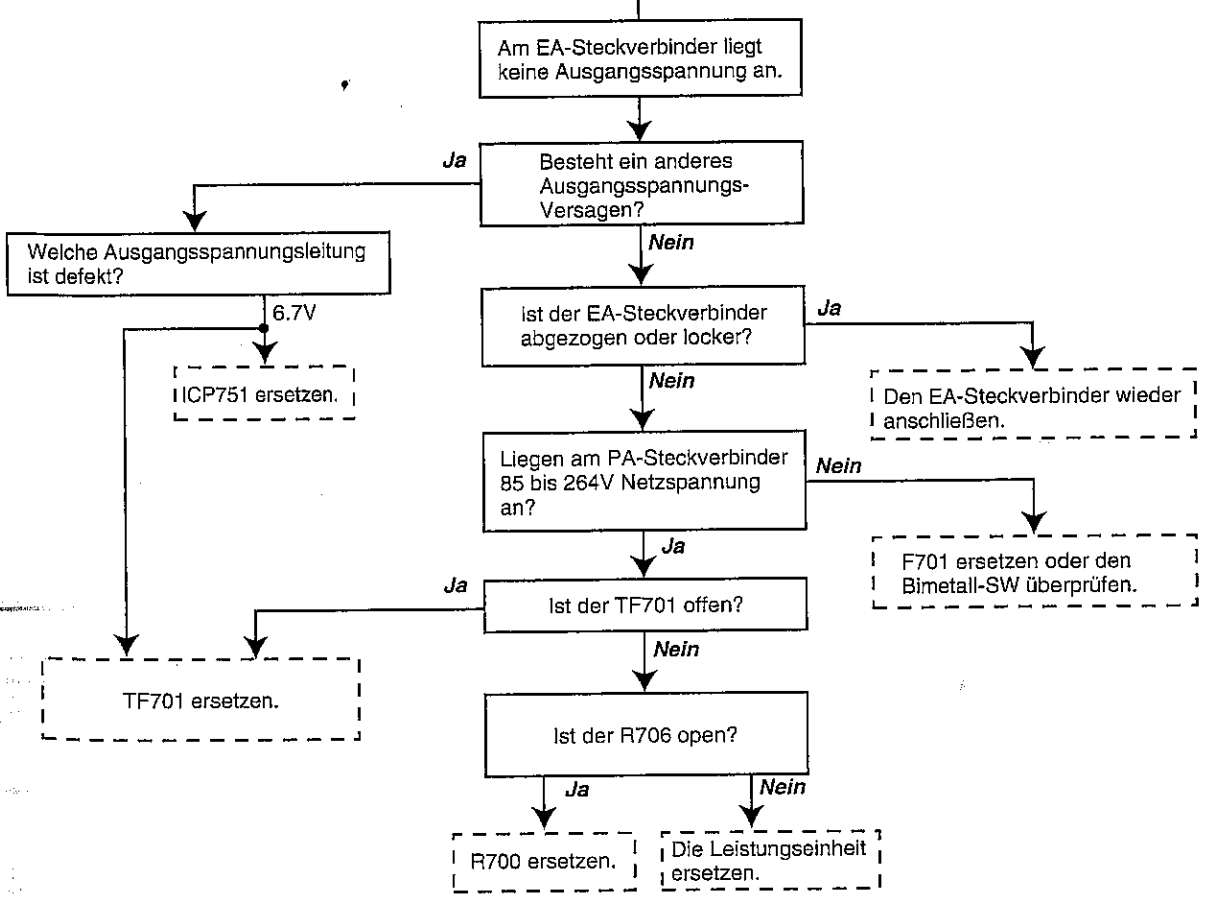

Überprüfung der Ausgangsplatine
Liegen Eingangssignale an SC1404, SC1405, SC1501 und SC1502 an? Wird den EA-Steckverbindern und SC5502 Spannung zugeführt?
Nein
Wenn keine Signale am SC1501 und SC1502 anliegen, zu Video-Systemblock weitergehen.
Wenn keine Signale am SC1404 und SC1405 anliegen, zur "Störungssuchtabelle für die PC-Schnittstelleneinheit" weitergehen.
Nein
Wenn keine Signale am EA-Steckverbinder oder SC5502 anliegen, zum Abschnitt "Überprüfung des Netzteilblocks" weitergehen.
Ja
Liegen Ausgangssignale an den Stiften (14), (16) und (18) von IC1401 an?
Nein
IC1401 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale am Stift (47) von IC1101, IC1201 und IC1301 an?
Nein
IC1401 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangssignale an den Stiften (17), (19), (21), (28), (30) und (32) von IC1101, IC1201 und IC1301 an?
Nein
IC1101, IC1201 und IC1301 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Ausgangssignale an den Stiften (17), (19), (21), (28), (30) und (32) von IC1102, IC1202 und IC1302 an?
Nein
IC1102, IC1202 und IC1302 und ihre peripheren Schaltkreise überprüfen.
Ja
Liegen Eingangssignale an SC1101, SC1201 und SC1301 an?
Nein
Wenn keine Eingangssignale an den Stiften (1) und (31) von SC1101, SC1102 und SC1103 anliegen, den Umschalt-Schaltkreis und den Verstärkerschaltkreis von IC1101, IC1201, IC1301, IC1102, IC1202, IC1302 und ihre peripheren Schaltkreise überprüfen.
Ja
Die R-, G- und B-Platinen überprüfen.
Nein
Wenn keine Eingangssignale an den Stiften (15) und (30) von SC1101, SC1102 und SC1103 anliegen, IC1409 und ihre peripheren Schaltkreise überprüfen.
IC1106, IC1206, IC1306, IC1408 und ihre peripheren Schaltkreise überprüfen.

# FEHLERSUCHTABELLE (Fortsetzung)

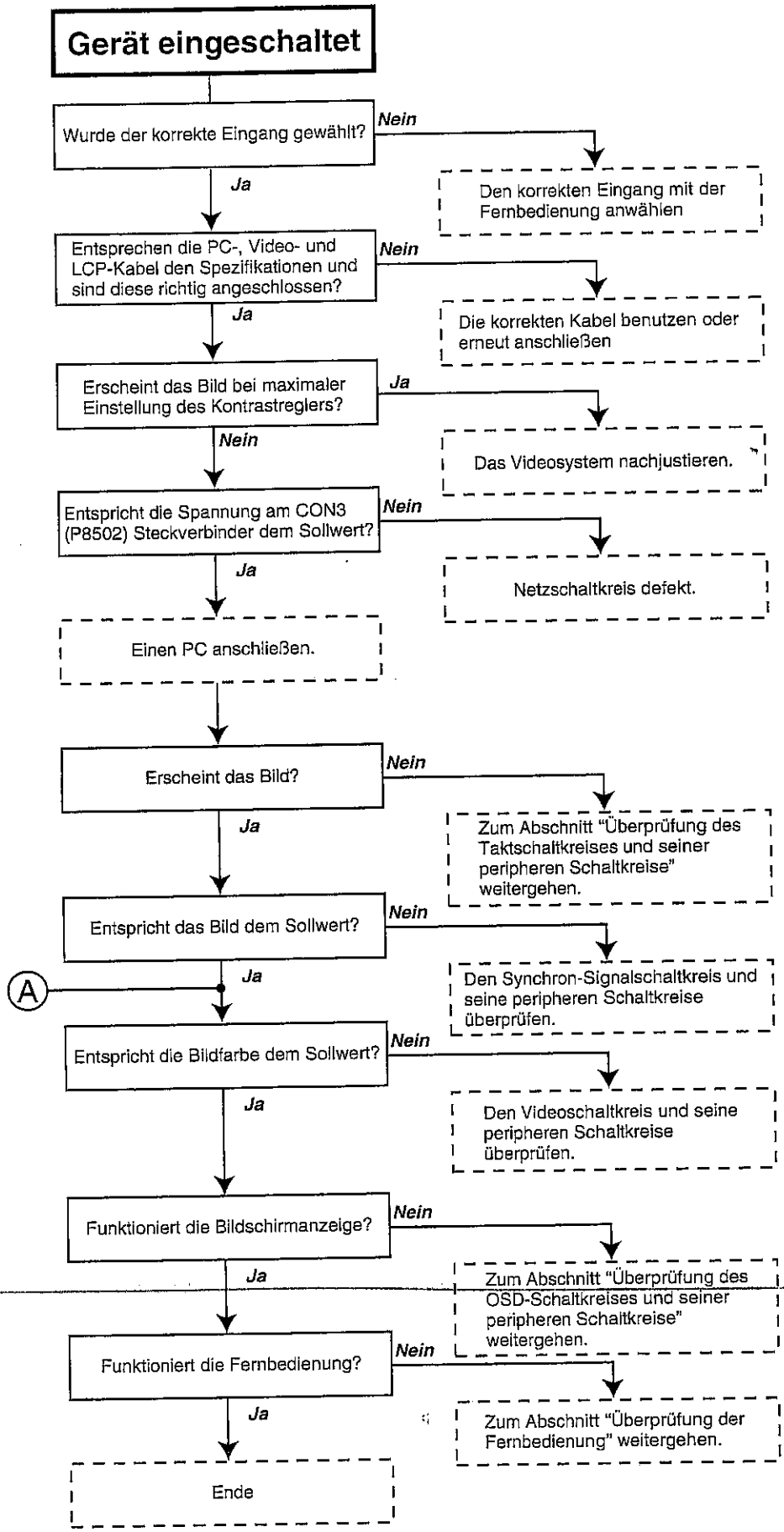
## Kein Ton


Liegen Audio-Eingangssignale an Stift (2) von IC1411 an?
Nein
Ja
Den Eingangskreis und den Umschalt-Schaltkreis von IC3303 und IC3304 und ihre peripheren Schaltkreise, SC3001, SC1502 usw. überprüfen.
Liegen Audio-Eingangssignale an Stift (2) von P5508 an?
Nein
Ja
Bei IC1411 die Steuerspannung und die peripheren Schaltkreise überprüfen.
Liegen Audio-Eingangssignale an Stift (6) von IC7301 an?
Nein
Ja
IC7301 überprüfen und seine peripheren Schaltkreise überprüfen.
Wenn die Spannung am Stift (2) von IC7301 nicht dem Sollwert entspricht, Q5501, Q5502 und seine peripheren Schaltkreise überprüfen.
IC7301 und seine peripheren Schaltkreise sowie die SP-Steckverbinder und Lautsprecher überprüfen.

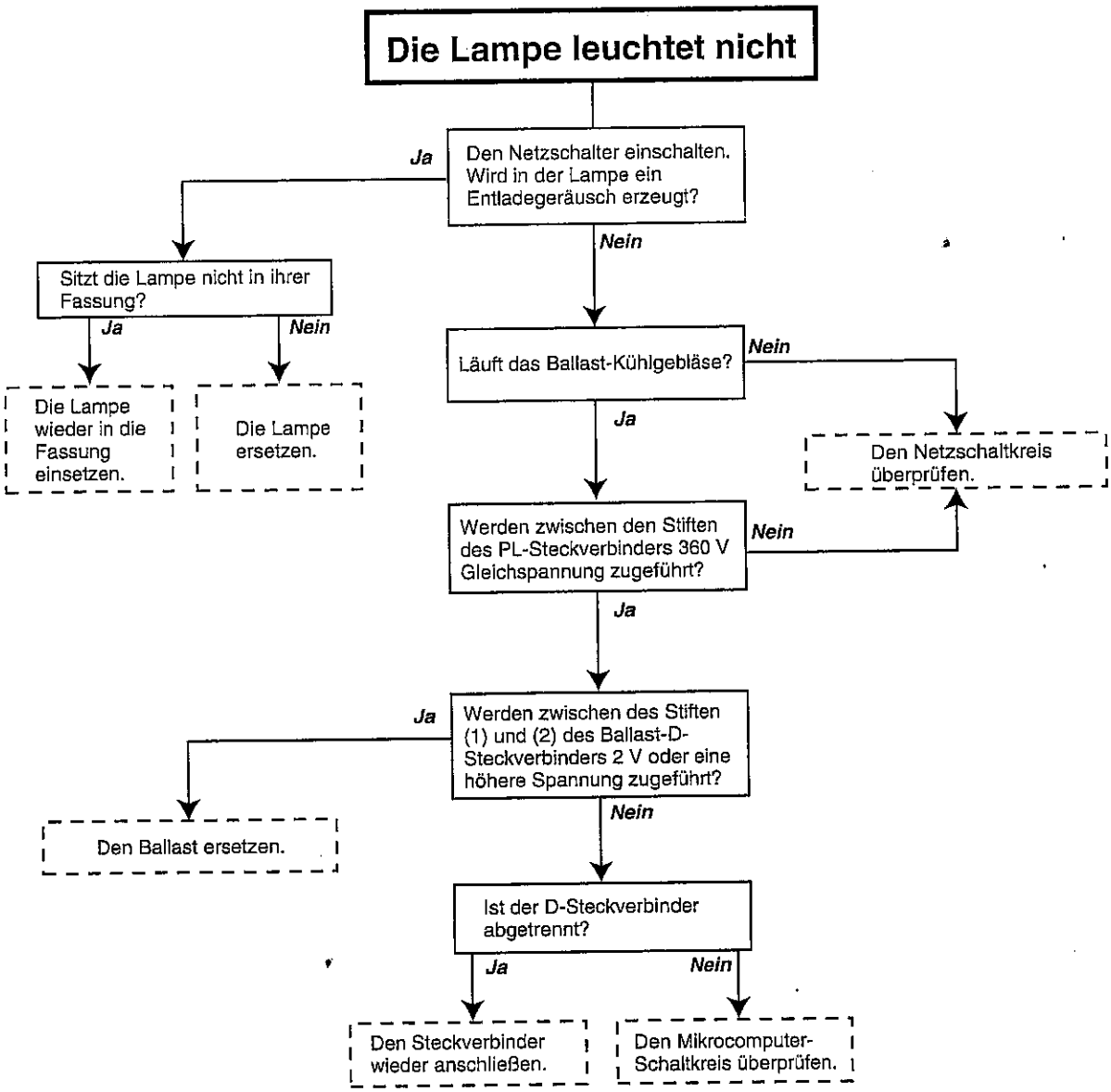
## Überprüfung des Netzgeräts



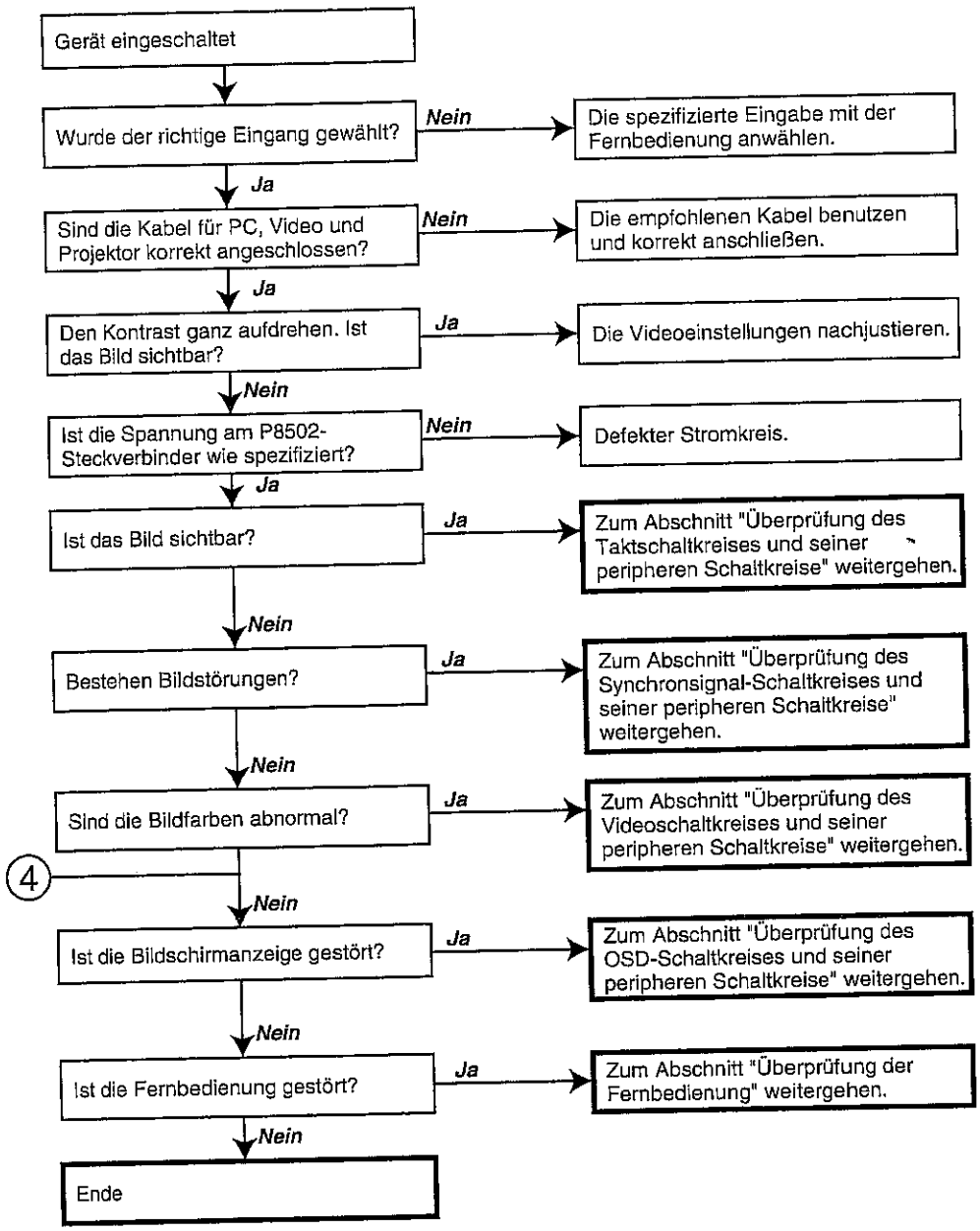
# FEHLERSUCHTABELLE (Fortsetzung)



# FEHLERSUCHTABELLE (Fortsetzung)

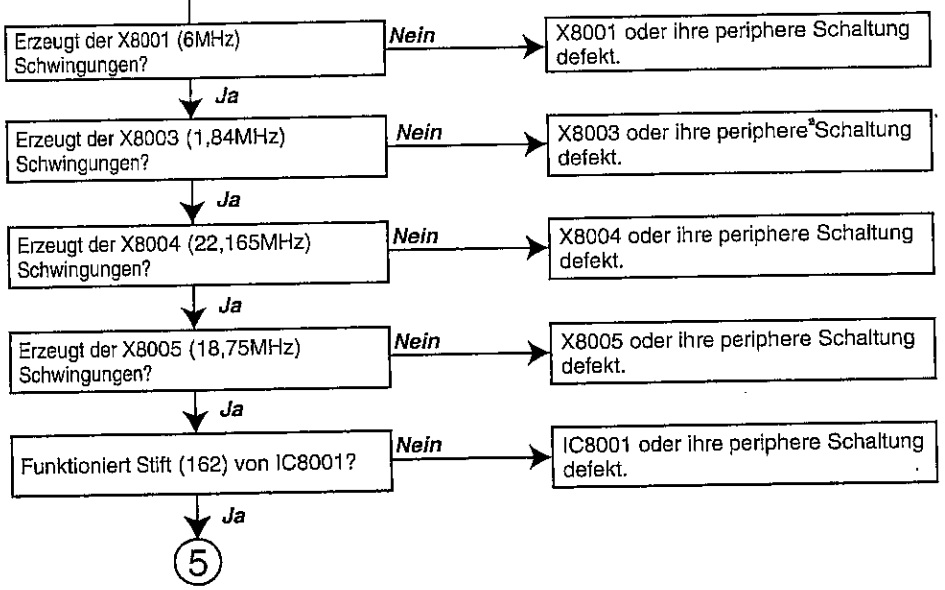


# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-1

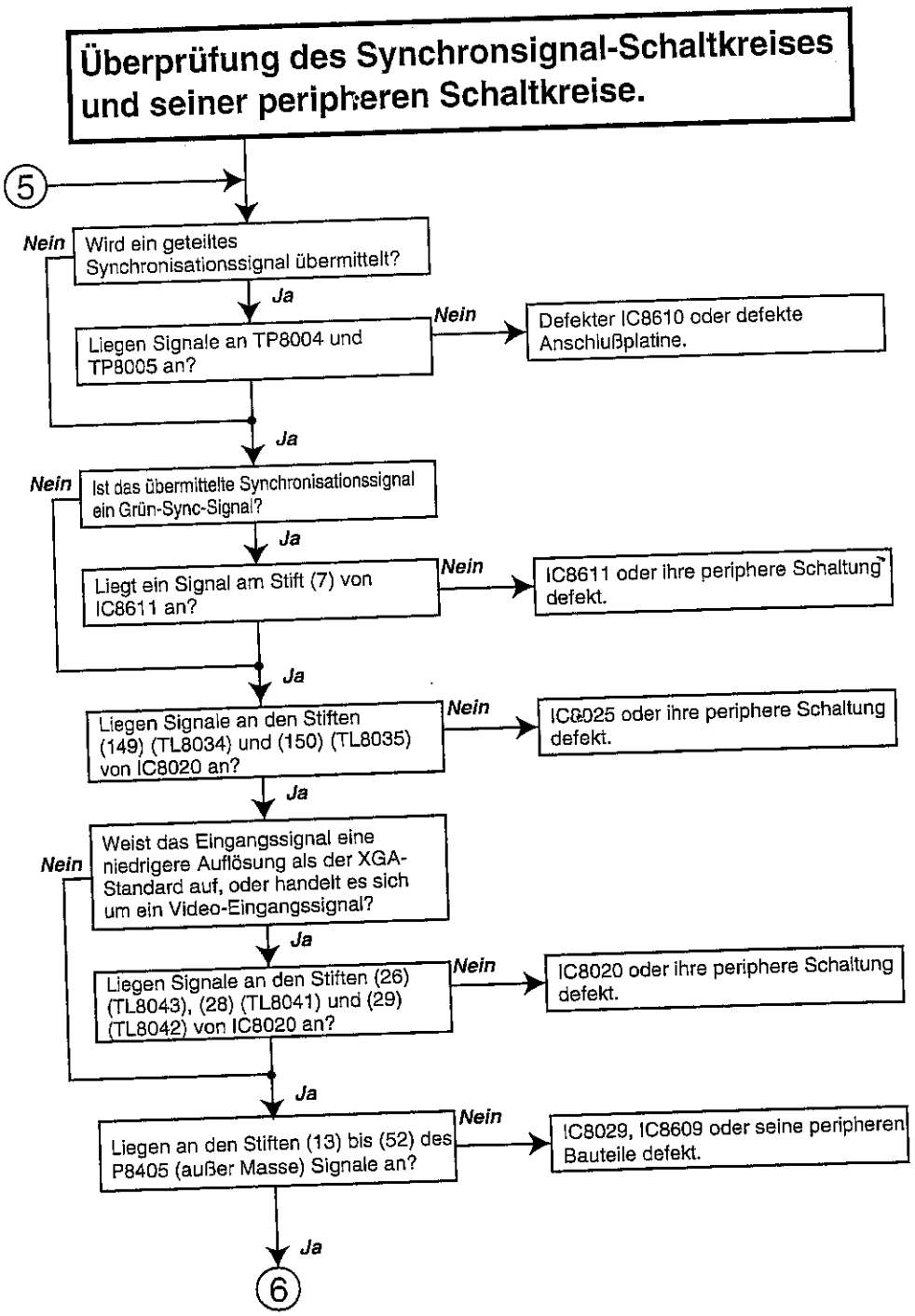


# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-2

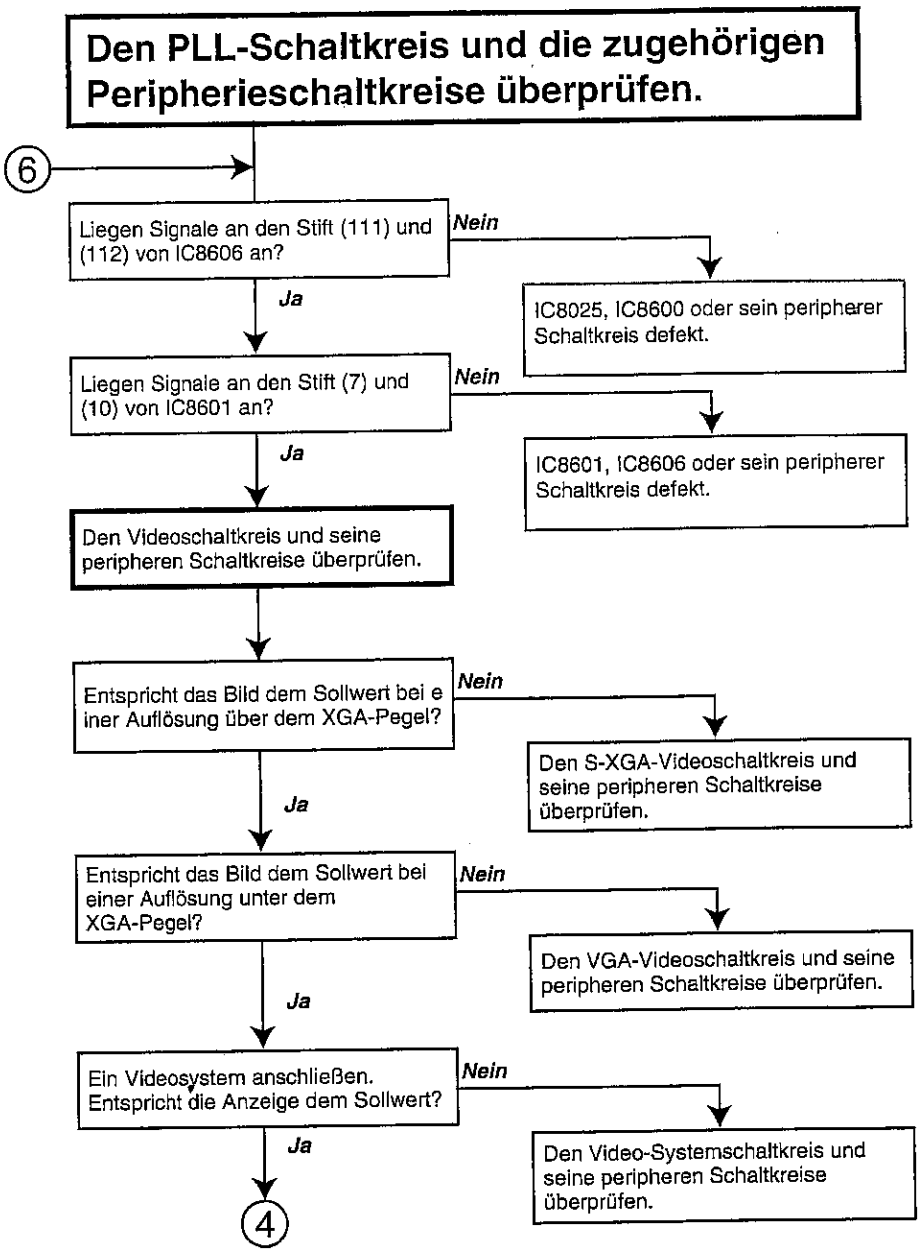
**Den Taktschaltkreis und die zugehörigen Peripherieschaltkreise überprüfen.**



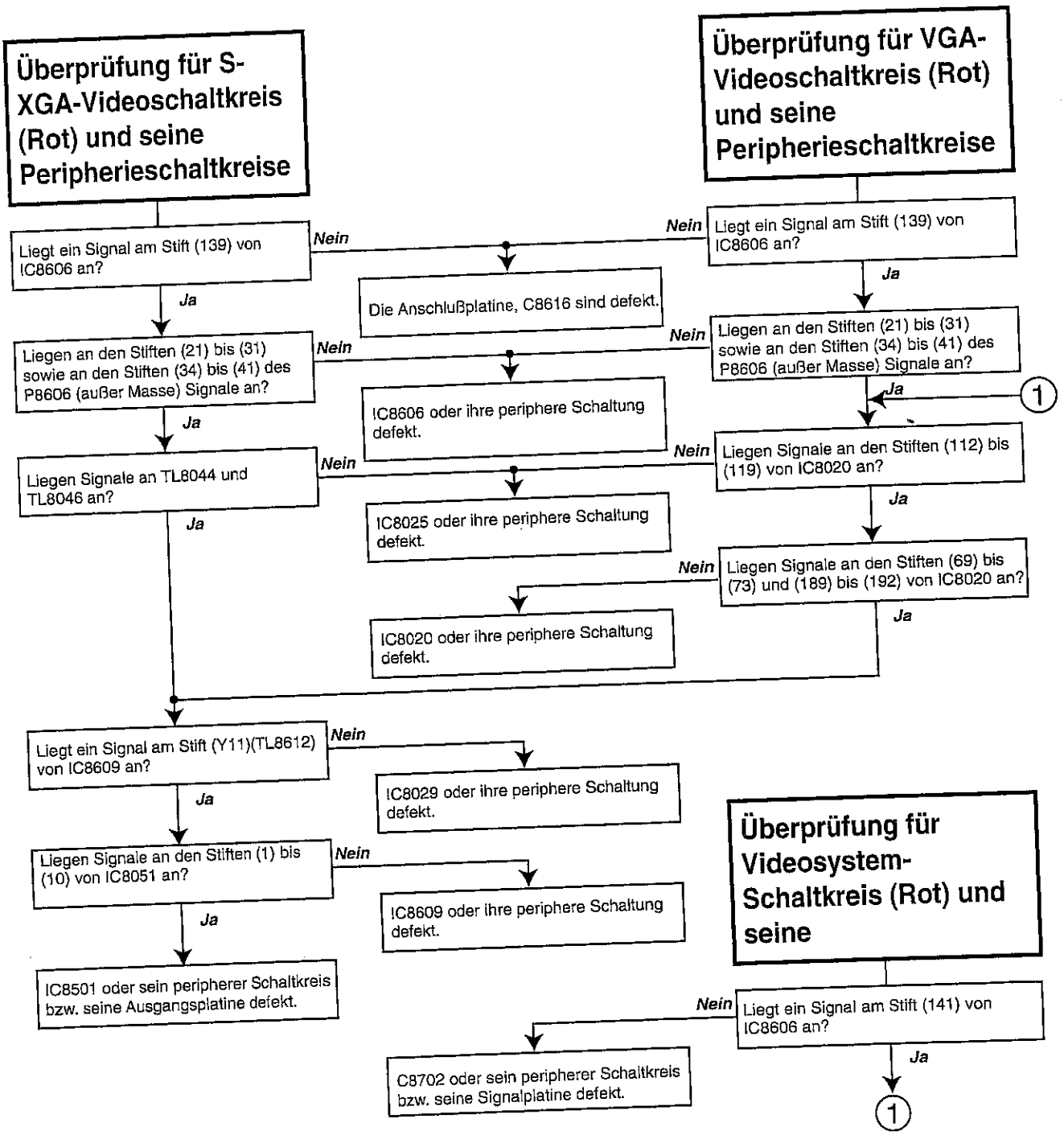
# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-3


Überprüfung des Synchronsignal-Schaltkreises und seiner peripheren Schaltkreise.
5
Nein
Wird ein geteiltes Synchronisationssignal übermittelt?
Ja
Liegen Signale an TP8004 und TP8005 an?
Nein
Defekter IC8610 oder defekte Anschlußplatine.
Ja
Nein
Ist das übermittelte Synchronisationssignal ein Grün-Sync-Signal?
Ja
Liegt ein Signal am Stift (7) von IC8611 an?
Nein
IC8611 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an den Stiften (149) (TL8034) und (150) (TL8035) von IC8020 an?
Nein
IC8025 oder ihre periphere Schaltung defekt.
Ja
Nein
Weist das Eingangssignal eine niedrigere Auflösung als der XGA-Standard auf, oder handelt es sich um ein Video-Eingangssignal?
Ja
Liegen Signale an den Stiften (26) (TL8043), (28) (TL8041) und (29) (TL8042) von IC8020 an?
Nein
IC8020 oder ihre periphere Schaltung defekt.
Ja
Liegen an den Stiften (13) bis (52) des P8405 (außer Masse) Signale an?
Nein
IC8029, IC8609 oder seine peripheren Bauteile defekt.
Ja
6

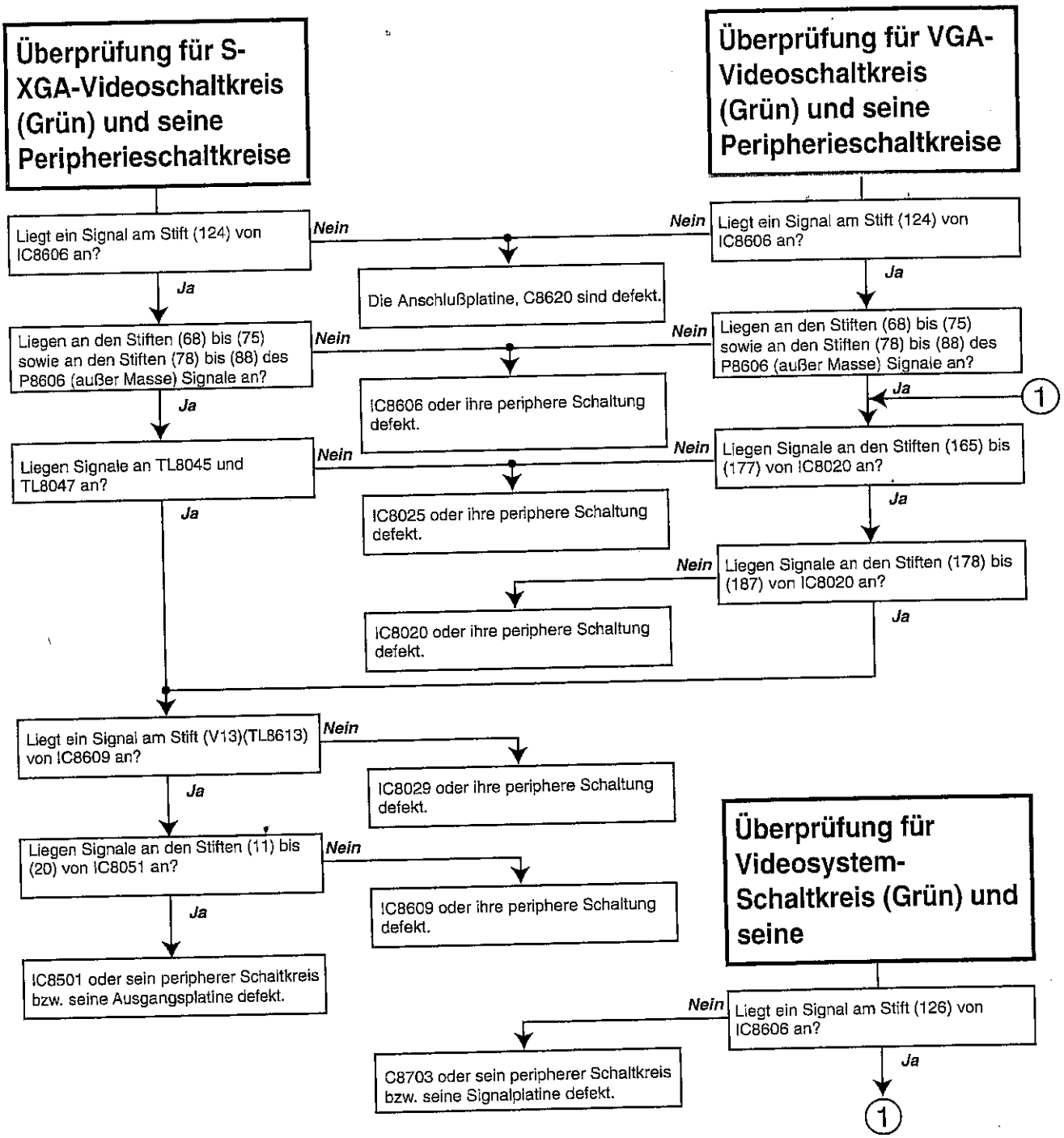
# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-4


Den PLL-Schaltkreis und die zugehörigen Peripherieschaltkreise überprüfen.
6
Liegen Signale an den Stift (111) und (112) von IC8606 an?
Nein
IC8025, IC8600 oder sein peripherer Schaltkreis defekt.
Ja
Liegen Signale an den Stift (7) und (10) von IC8601 an?
Nein
IC8601, IC8606 oder sein peripherer Schaltkreis defekt.
Ja
Den Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Entspricht das Bild dem Sollwert bei einer Auflösung über dem XGA-Pegel?
Nein
Den S-XGA-Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Ja
Entspricht das Bild dem Sollwert bei einer Auflösung unter dem XGA-Pegel?
Nein
Den VGA-Videoschaltkreis und seine peripheren Schaltkreise überprüfen.
Ja
Ein Videosystem anschließen. Entspricht die Anzeige dem Sollwert?
Nein
Den Video-Systemschaltkreis und seine peripheren Schaltkreise überprüfen.
Ja
4

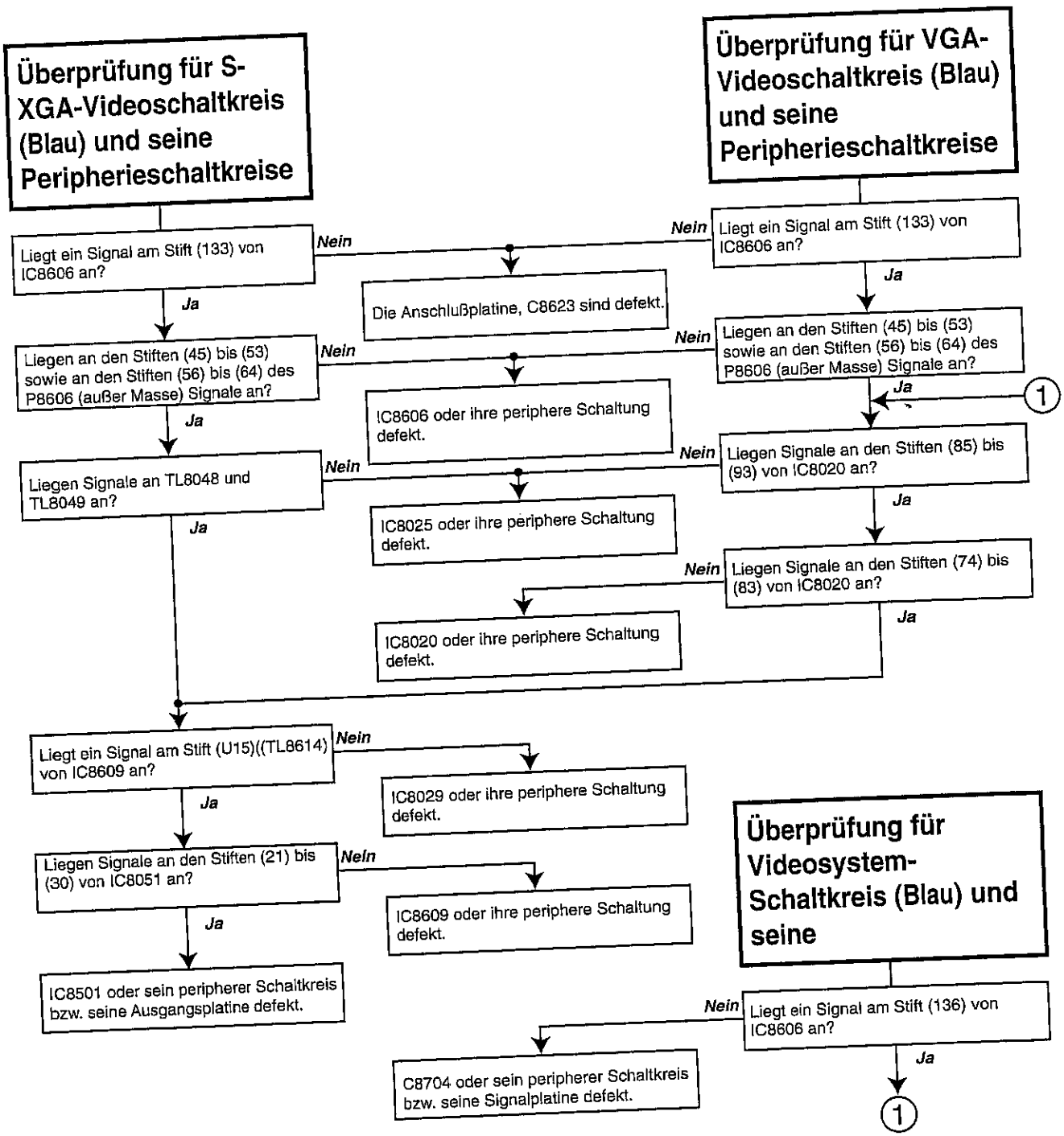
# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-5


Überprüfung für S-XGA-Videoschaltkreis (Rot) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (139) von IC8606 an?
Nein
Die Anschlußplatine, C8616 sind defekt.
Ja
Liegen an den Stiften (21) bis (31) sowie an den Stiften (34) bis (41) des P8606 (außer Masse) Signale an?
Nein
IC8606 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an TL8044 und TL8046 an?
Nein
IC8025 oder ihre periphere Schaltung defekt.
Ja
Liegt ein Signal am Stift (Y11)(TL8612) von IC8609 an?
Nein
IC8029 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an den Stiften (1) bis (10) von IC8051 an?
Nein
IC8609 oder ihre periphere Schaltung defekt.
Ja
IC8501 oder sein peripherer Schaltkreis bzw. seine Ausgangsplatine defekt.
Überprüfung für VGA-Videoschaltkreis (Rot) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (139) von IC8606 an?
Nein
Ja
Liegen an den Stiften (21) bis (31) sowie an den Stiften (34) bis (41) des P8606 (außer Masse) Signale an?
Nein
Ja
1
Liegen Signale an den Stiften (112) bis (119) von IC8020 an?
Nein
Ja
Liegen Signale an den Stiften (69) bis (73) und (189) bis (192) von IC8020 an?
Nein
IC8020 oder ihre periphere Schaltung defekt.
Ja
Überprüfung für Videosystem-Schaltkreis (Rot) und seine
Liegt ein Signal am Stift (141) von IC8606 an?
Nein
C8702 oder sein peripherer Schaltkreis bzw. seine Signalplatine defekt.
Ja
1

# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-6

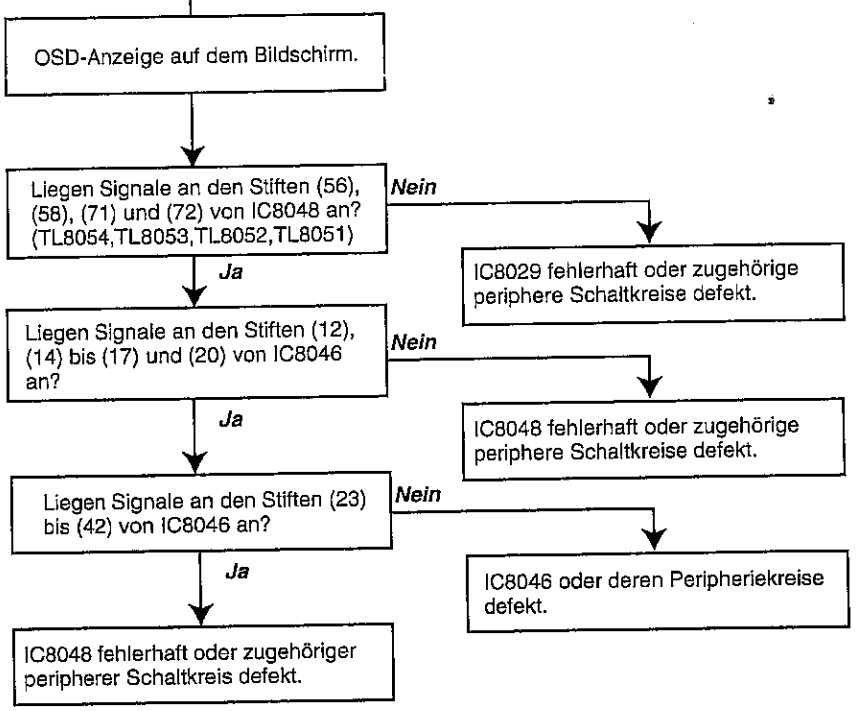

Überprüfung für S-XGA-Videoschaltkreis (Grün) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (124) von IC8606 an?
Nein
Ja
Die Anschlußplatine, C8620 sind defekt.
Liegen an den Stiften (68) bis (75) sowie an den Stiften (78) bis (88) des P8606 (außer Masse) Signale an?
Nein
Ja
IC8606 oder ihre periphere Schaltung defekt.
Liegen Signale an TL8045 und TL8047 an?
Nein
Ja
IC8025 oder ihre periphere Schaltung defekt.
Liegt ein Signal am Stift (V13)(TL8613) von IC8609 an?
Nein
Ja
IC8029 oder ihre periphere Schaltung defekt.
Liegen Signale an den Stiften (11) bis (20) von IC8051 an?
Nein
Ja
IC8609 oder ihre periphere Schaltung defekt.
IC8501 oder sein peripherer Schaltkreis bzw. seine Ausgangsplatine defekt.
Überprüfung für VGA-Videoschaltkreis (Grün) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (124) von IC8606 an?
Nein
Ja
Liegen an den Stiften (68) bis (75) sowie an den Stiften (78) bis (88) des P8606 (außer Masse) Signale an?
Nein
Ja
1
Liegen Signale an den Stiften (165) bis (177) von IC8020 an?
Nein
Ja
Liegen Signale an den Stiften (178) bis (187) von IC8020 an?
Nein
Ja
IC8020 oder ihre periphere Schaltung defekt.
Überprüfung für Videosystem-Schaltkreis (Grün) und seine
Liegt ein Signal am Stift (126) von IC8606 an?
Nein
Ja
C8703 oder sein peripherer Schaltkreis bzw. seine Signalplatine defekt.
1

# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-7

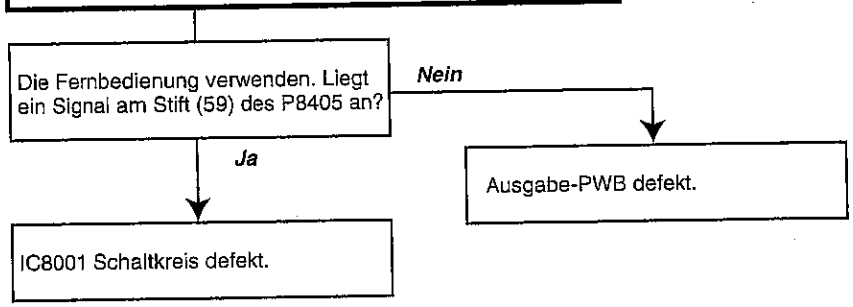

Überprüfung für S-XGA-Videoschaltkreis (Blau) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (133) von IC8606 an?
Nein
Die Anschlußplatine, C8623 sind defekt.
Ja
Liegen an den Stiften (45) bis (53) sowie an den Stiften (56) bis (64) des P8606 (außer Masse) Signale an?
Nein
IC8606 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an TL8048 und TL8049 an?
Nein
IC8025 oder ihre periphere Schaltung defekt.
Ja
Liegt ein Signal am Stift (U15)((TL8614) von IC8609 an?
Nein
IC8029 oder ihre periphere Schaltung defekt.
Ja
Liegen Signale an den Stiften (21) bis (30) von IC8051 an?
Nein
IC8609 oder ihre periphere Schaltung defekt.
Ja
IC8501 oder sein peripherer Schaltkreis bzw. seine Ausgangsplatine defekt.
Überprüfung für VGA-Videoschaltkreis (Blau) und seine Peripherieschaltkreise
Liegt ein Signal am Stift (133) von IC8606 an?
Nein
Ja
Liegen an den Stiften (45) bis (53) sowie an den Stiften (56) bis (64) des P8606 (außer Masse) Signale an?
Nein
Ja
1
Liegen Signale an den Stiften (85) bis (93) von IC8020 an?
Nein
Ja
Liegen Signale an den Stiften (74) bis (83) von IC8020 an?
Nein
Ja
IC8020 oder ihre periphere Schaltung defekt.
Überprüfung für Videosystem-Schaltkreis (Blau) und seine
Liegt ein Signal am Stift (136) von IC8606 an?
Nein
Ja
C8704 oder sein peripherer Schaltkreis bzw. seine Signalplatine defekt.
1

# FEHLERSUCHTABELLE FÜR PC I/F EINHEIT-8

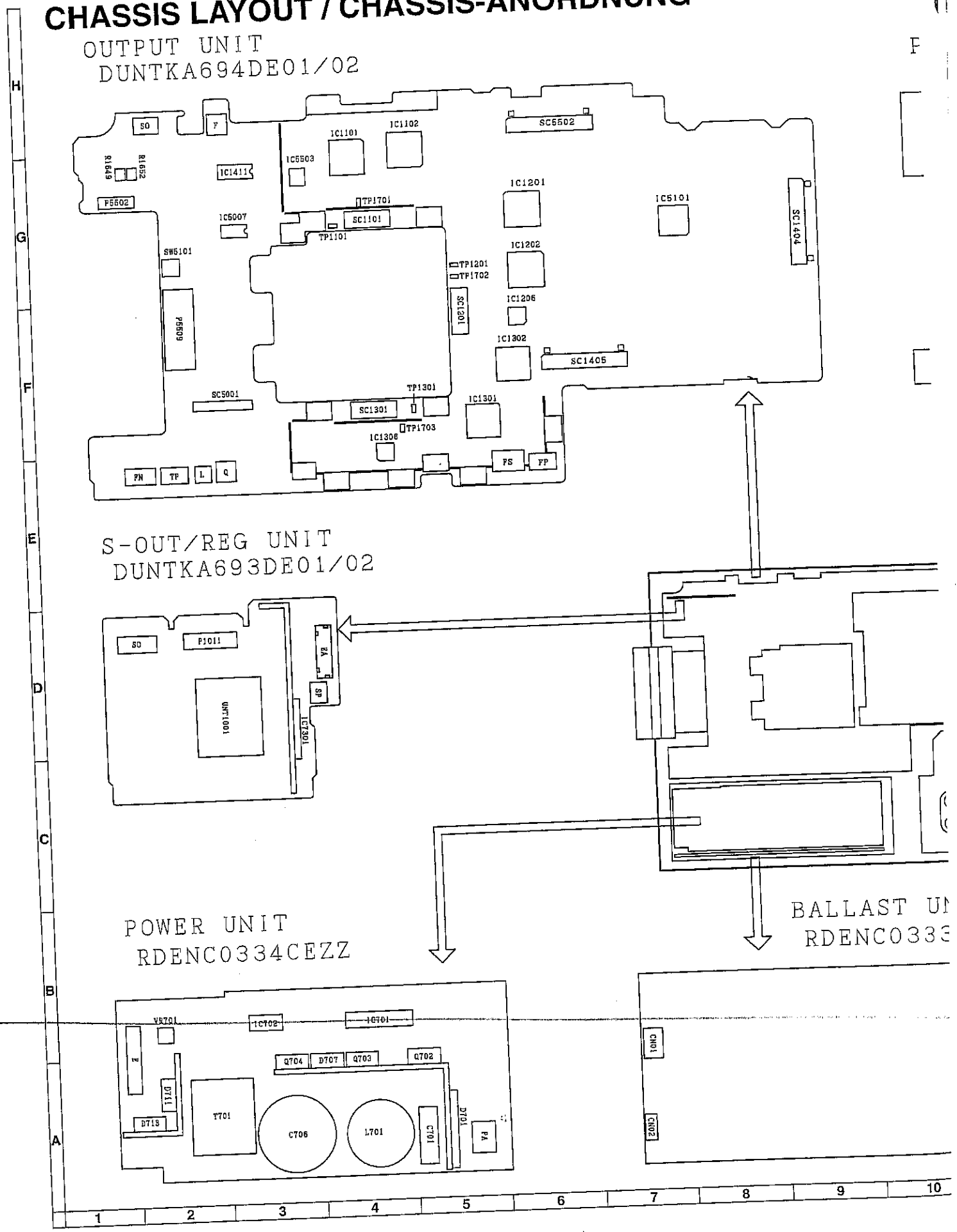
## Überprüfung für OSD-Schaltkreis und seiner Peripherieschaltkreise


OSD-Anzeige auf dem Bildschirm.
Liegen Signale an den Stiften (56), (58), (71) und (72) von IC8048 an? (TL8054,TL8053,TL8052,TL8051)
Nein
IC8029 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
Ja
Liegen Signale an den Stiften (12), (14) bis (17) und (20) von IC8046 an?
Nein
IC8048 fehlerhaft oder zugehörige periphere Schaltkreise defekt.
Ja
Liegen Signale an den Stiften (23) bis (42) von IC8046 an?
Nein
IC8046 oder deren Peripheriekreise defekt.
Ja
IC8048 fehlerhaft oder zugehöriger peripherer Schaltkreis defekt.

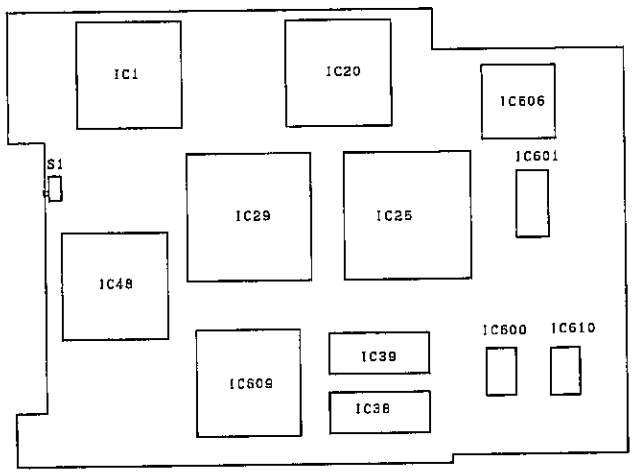
## Überprüfung der Fernbedienung



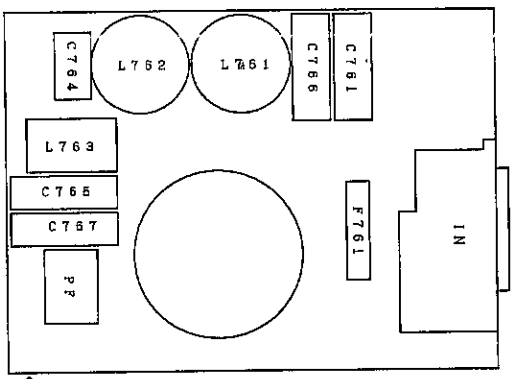
# CHASSIS LAYOUT / CHASSIS-ANORDNUNG



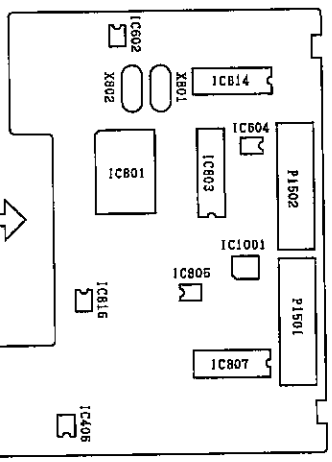
PC I/F UNIT
CPCI-0047CE15/16



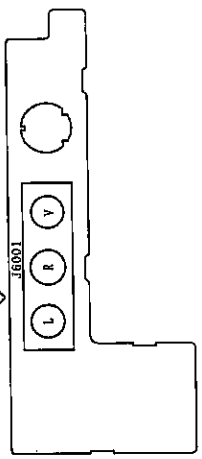

INLET UNIT
RUNTK0677CEZZ



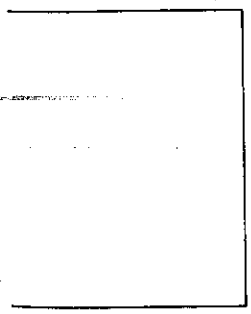

SIGNAL UNIT
DUNTKA211DE11/B116DE02

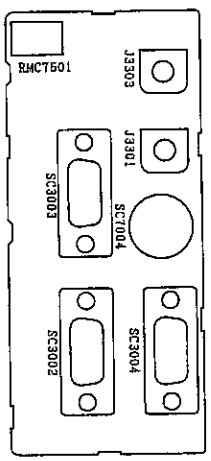



VIDEO UNIT
DUNTK9769DE24/25



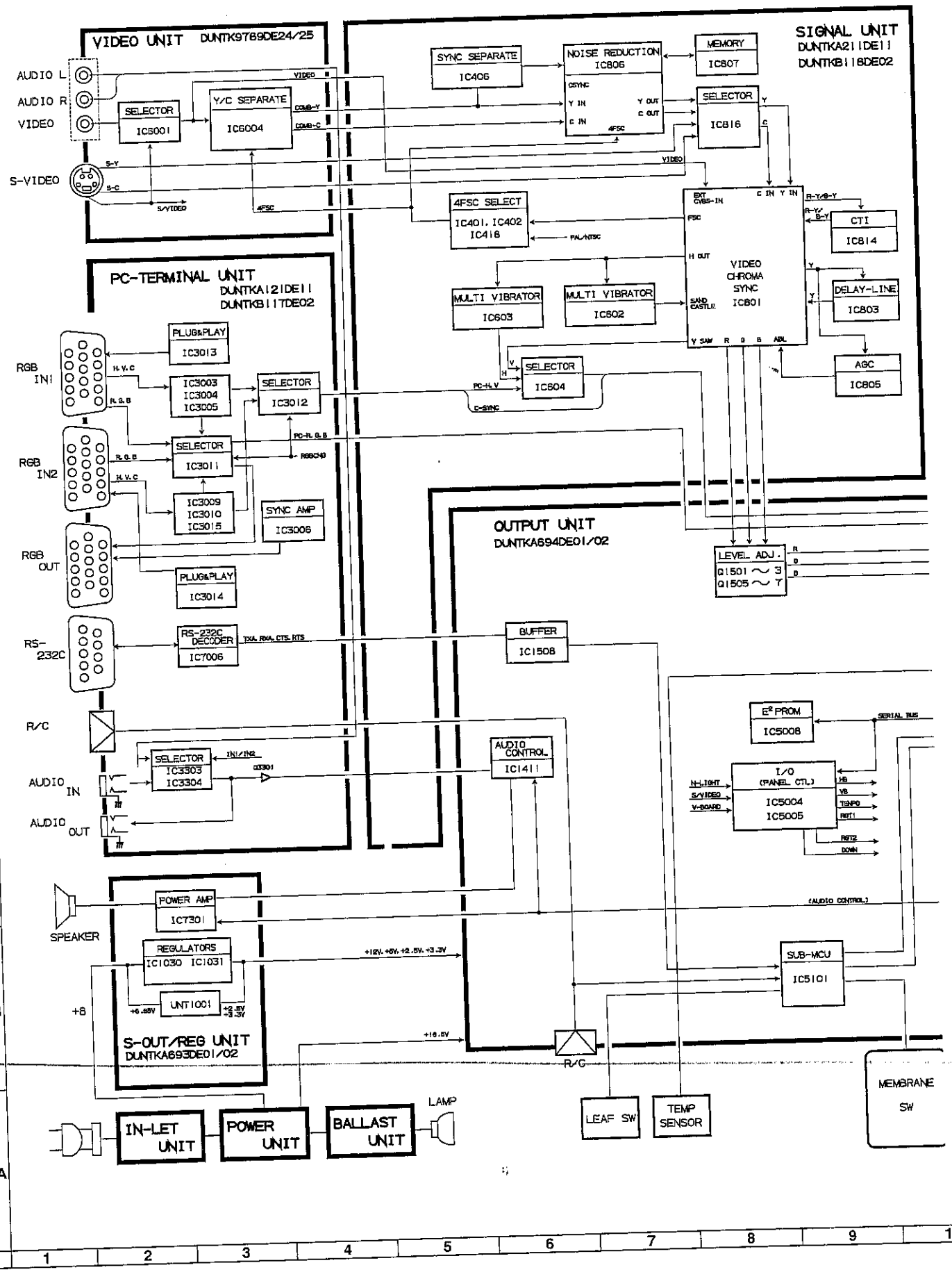

ST UNIT
:0333CEZZ

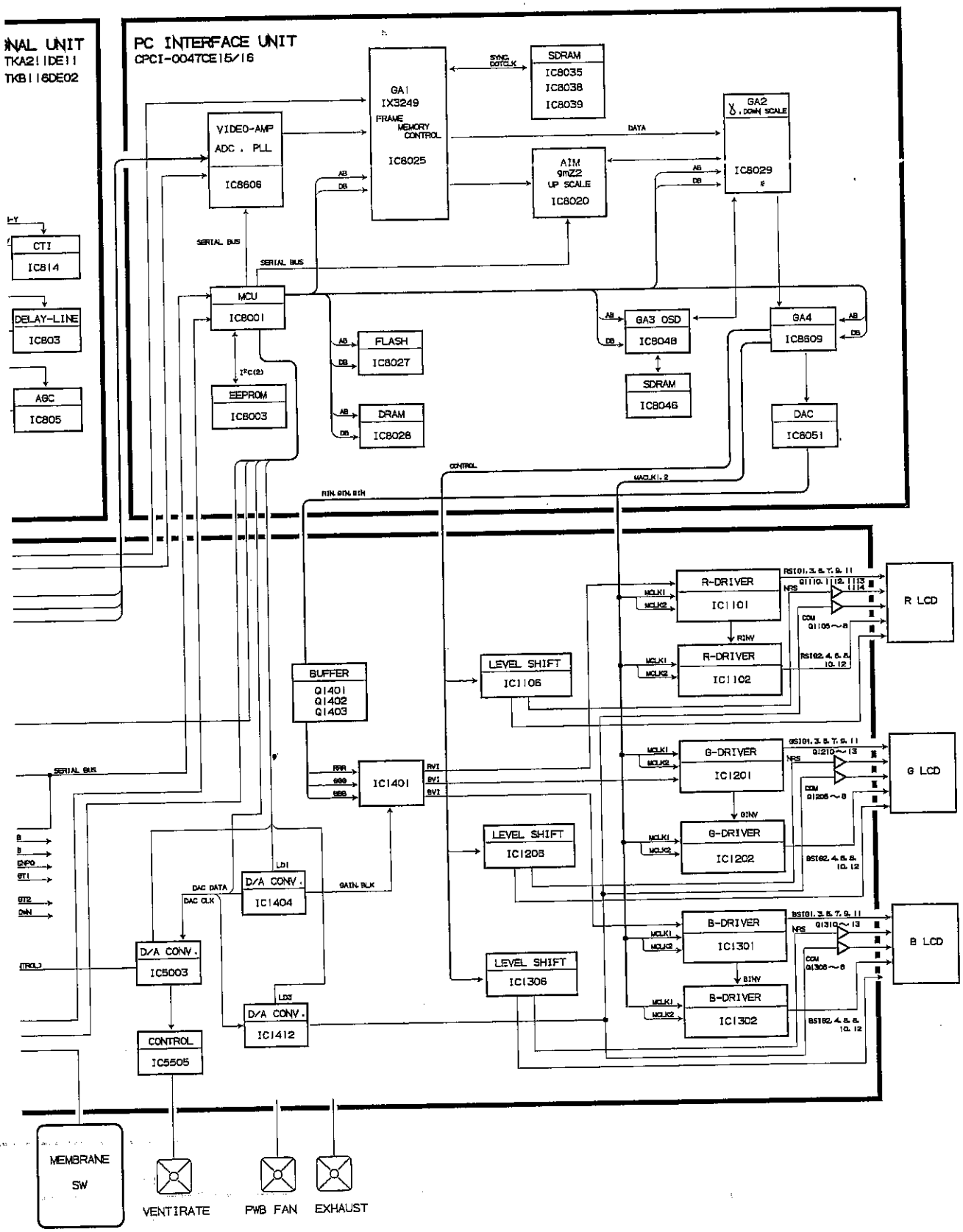




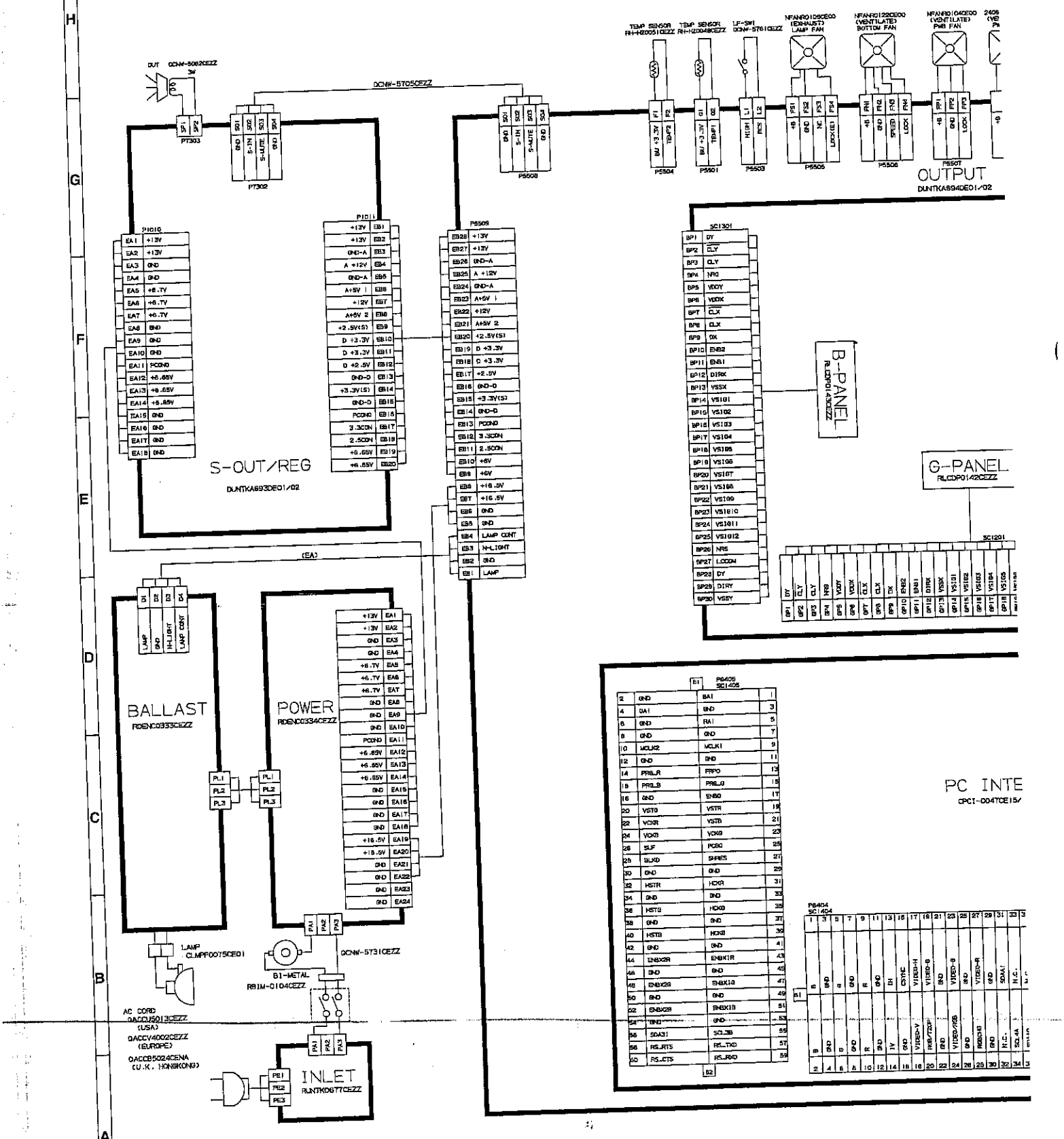

PC TERMINAL UNIT
DUNTKA212DE11/B117DE02

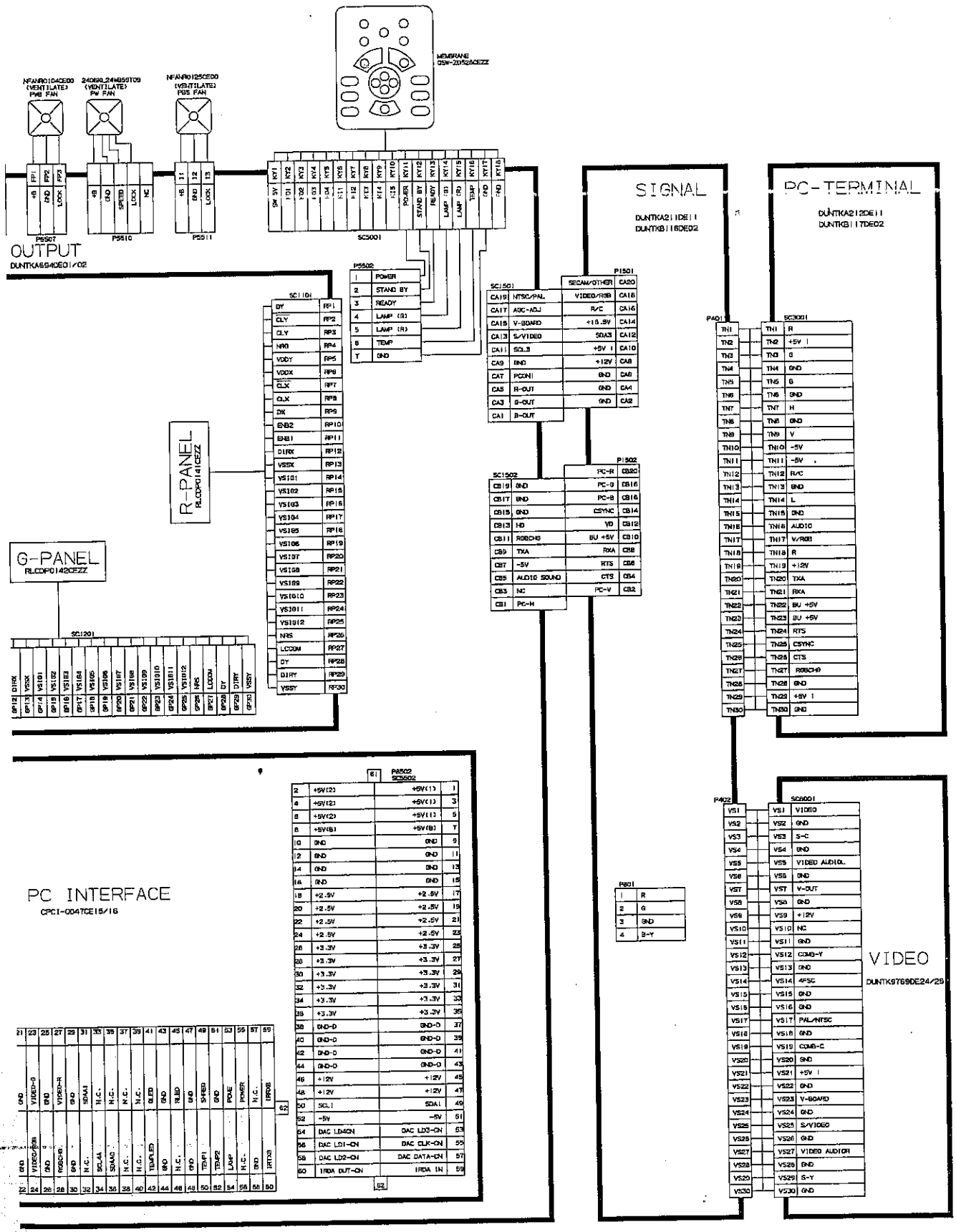
# BLOCK DIAGRAM / BLOCKSCHALTBILD




NAL UNIT
TKA211DE11
TKB116DE02
PC INTERFACE UNIT
CPCI-0047CE15/16
GA1
IX3249
FRAME MEMORY CONTROL
IC8025
SDRAM
IC8035
IC8038
IC8039
VIDEO-AMP
ADC . PLL
IC8606
AIM
UP SCALE
IC8020
GA2
IC8029
CTI
IC814
DELAY-LINE
IC803
AGC
IC805
MCU
IC8001
SERIAL BUS
EEPROM
IC8003
FLASH
IC8027
DRAM
IC8028
GA3 OSD
IC8048
SDRAM
IC8046
GA4
IC8609
DAC
IC8051
CONTROL
BUFFER
Q1401
Q1402
Q1403
IC1401
LEVEL SHIFT
IC1106
LEVEL SHIFT
IC1208
LEVEL SHIFT
IC1306
R-DRIVER
IC1101
R-DRIVER
IC1102
G-DRIVER
IC1201
G-DRIVER
IC1202
B-DRIVER
IC1301
B-DRIVER
IC1302
R LCD
G LCD
B LCD
D/A CONV.
IC1404
D/A CONV.
IC5003
D/A CONV.
IC1412
CONTROL
IC5505
MEMBRANE
SW
VENTIRATE
PWB FAN
EXHAUST

# OVERALL WIRING DIAGRAM / GESAMTSCHALTPLAN




OUTPUT
DUNTKA654DE01/02
SIGNAL
DUNTKA211DE11
DUNTKB116DE02
PC-TERMINAL
DUNTKA212DE11
DUNTKB117DE02
R-PANEL
RLCDP0141CEZZ
G-PANEL
RLCDP0142CEZZ
PC INTERFACE
CPCI-0047CE15/16
VIDEO
DUNTKS769DE24/25

# DESCRIPTION OF SCHEMATIC DIAGRAM

## VOLTAGE MEASUREMENT CONDITION:

1. Voltages at test points are measured at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

## WAVEFORM MEASUREMENT CONDITION:

1. Waveforms at test points are observed at the supply voltage of AC 230V. Signals are fed by a colour bar signal generator for servicing purpose.

## INDICATION OF RESISTOR & CAPACITOR:

### RESISTOR

1. The unit of resistance "Ω" is omitted.
   (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted.
   (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid  Ⓦ: Cement
   Ⓢ: Oxide Film  Ⓣ: Special
   Ⓝ: Metal Coating

### CAPACITOR

1. All capacitors are μF, unless otherwise noted.
   (P=pF=μμF).
2. All capacitors are 50V, unless otherwise noted.
3. All capacitors are Ceramic type, unless otherwise noted.
   (ML): Mylar  (TA): Tantalum
   (PF): Polypro Film  (ST): Styrol

**CAUTION:**
**This circuit diagram is original one, therefore there may be a slight difference from yours.**

***SAFETY NOTES:***

1. *DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACEING PARTS.*
2. *SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.*

***IMPORTANT SAFETY NOTICE:***

*PARTS MARKED WITH " ⚠ ( [redacted] ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.*

# BESCHREIBUNG DES SCHEMATISCHEN SCHALTPLANS

## SPANNUNGSMESSUNGEN:

1. Spannungen an den Prüfpunkten werden bei einer Netzspannung von 230V gemessen, Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt, und Spannungen werden mit einem Meßinstrument (20 kΩ/V) ermittelt.

## SIGNALFORMMESSUNGEN:

1. Die Wellenformen an den Testpunkten werden bei einer Netzspannung von 230V verfolgt. Signale werden für die Wartung mit einem Farbbalken-Signal generator zugeführt.

## BEZEICHNUNG DES WIDERSTANDS UND KONDENSATORS:

### WIDERSTAND

1. Die Widerstandseinheit "Ω" wird weggelassen.
   (K=kΩ=1000 Ω, M=MΩ).
2. Alle Widerstände haben ± 5%, sofern nicht anders angegeben.
   (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. Alle Widerstände haben 1/16W, sofern nicht anders angegeben.
4. Alle Widerstände sind Kohletyp, sofern nicht anders angegeben.
   Ⓒ: Fest  Ⓦ: Zement
   Ⓢ: Oxidefilm  Ⓣ: Spezial
   Ⓝ: Metallüberzug

### KONDENSATOR

1. Die Kapazitätseinheit ist μF, sofern nicht anders angegeben.
   (P=pF=μμF).
2. Alle Kondensatoren haben 50V, sofern nicht anders angegeben.
3. Alle Kondensatoren sind Keramiktyp, sofern nicht anders angegeben.
   (ML): Mylar  (TA): Tantal
   (PF): Polyprofilm  (ST): Styrol

**ACHTUNG:**
**bei diesem Schaltplan handelt es sich um den ursprünglichen. Esönnen daher geringfügige Unterschiede zu dem Ihrem bestehen.**

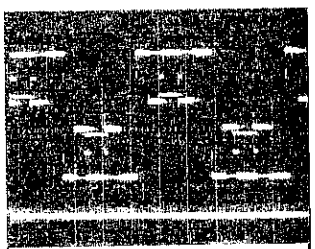
***SICHERHEITSANMERKUNGEN:***

1. *VOR DEM AUSWECHSELN VON TEILEN MUSS UNBEDINGT NETZSTECKER AUS DER NETZSTECKDOSE GEZOGEN WERDEN.*
2. *DIE WARMEABLEITER DER HALBLEITER SOLLTEN BEIM BETRIEB DES CHASSIS ALS MÖGLICHE URSACHEN VON GEFÄHRLICHEN ELEKTRISCHEN SCHLÄGEN BETRACHTET WERDEN.*

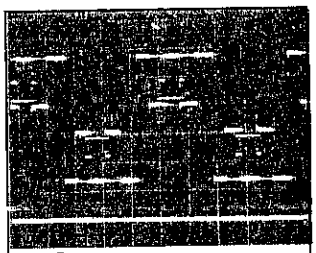
***WICHTIGE SICHERHEITSANMERKUNGEN:***

*MIT "⚠ ( [redacted] )BEZEICHNETEN TEILE SIND BESONDERS WICHTIG FÜR DIE AUFRECHTERHALTUNG DER SICHERHEIT . BEIM WECHDIESER TEILE SOLLTEN DIE VORGESCHRIEBENEN TEILE IMMER VERWENDET WERDEN, UM SOWOHL DIE SICHERHEIT ALS AUCH DIE LEISTUNG DES GERÄTES AUFRECHTZUERHALTEN.*

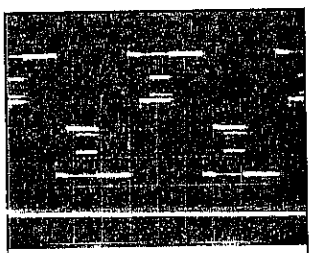
# WAVEFORMS / WELLENFORMEN



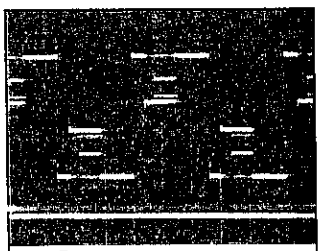
① SC1101 18-pin
(RP SIG5)
H : 10µsec/div
V : 2V/div



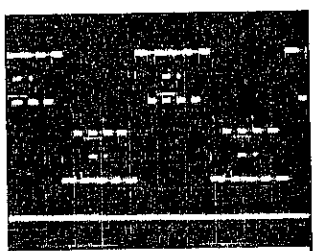
② SC1101 19-pin
(RP SIG6)
H : 10µsec/div
V : 2V/div



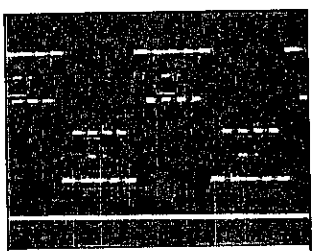
③ SC1201 18-pin
(GP SIG5)
H : 10µsec/div
V : 2V/div



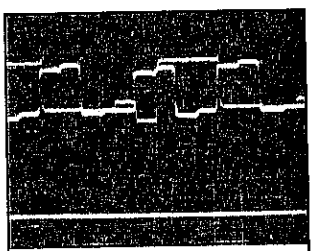
④ SC1201 19-pin
(GP SIG6)
H : 10µsec/div
V : 2V/div



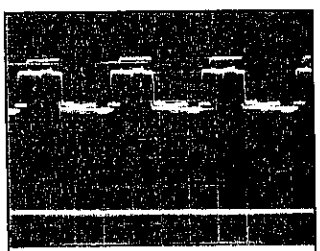
⑤ SC1301 18-pin
(BP SIG5)
H : 10µsec/div
V : 2V/div



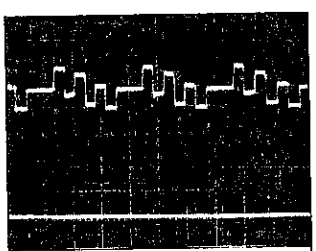
⑥ SC1301 19-pin
(BP SIG6)
H : 10µsec/div
V : 2V/div



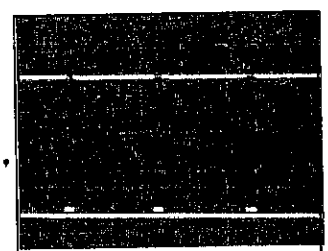
⑦ P801 1-pin
(R)
H : 10µsec/div
V : 0.5V/div



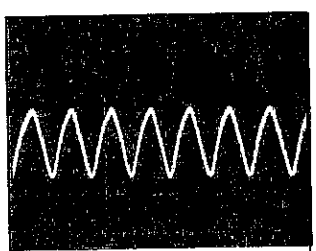
⑧ P801 2-pin
(G)
H : 20µsec/div
V : 0.5V/div



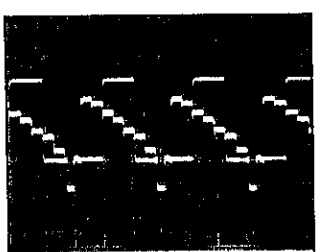
⑨ P801 4-pin
(B-Y)
H : 20µsec/div
V : 1V/div



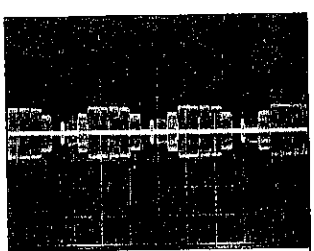
⑩ IC604 6-pin
(H-OUT)
H : 20µsec/div
V : 1V/div



⑪ Q422 Emitter
(4FSC)
H : 50µsec/div
V : 0.5V/div

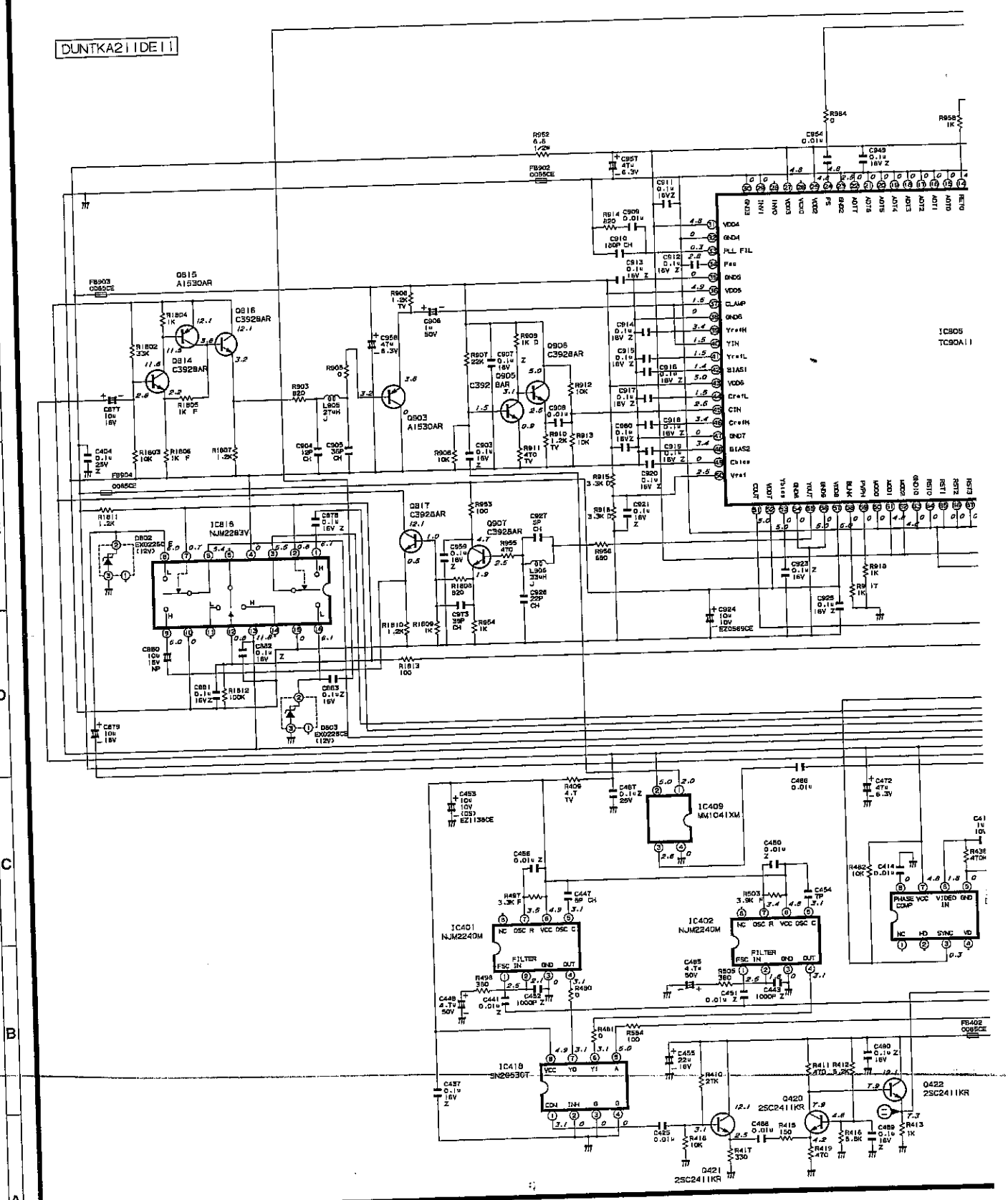


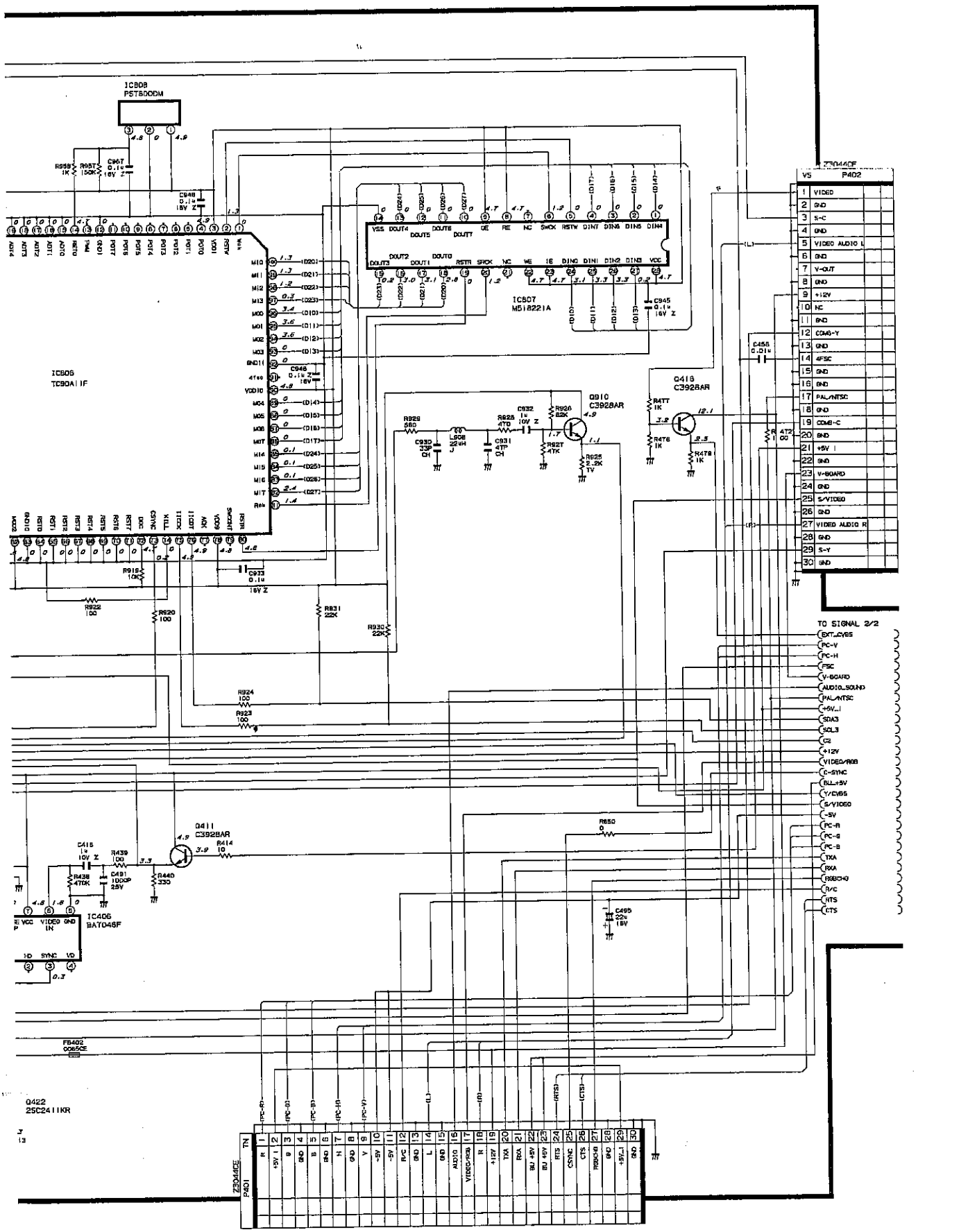
⑫ Q6008 Emitter
(Y-signal)
H : 10µsec/div
V : 0.2V/div



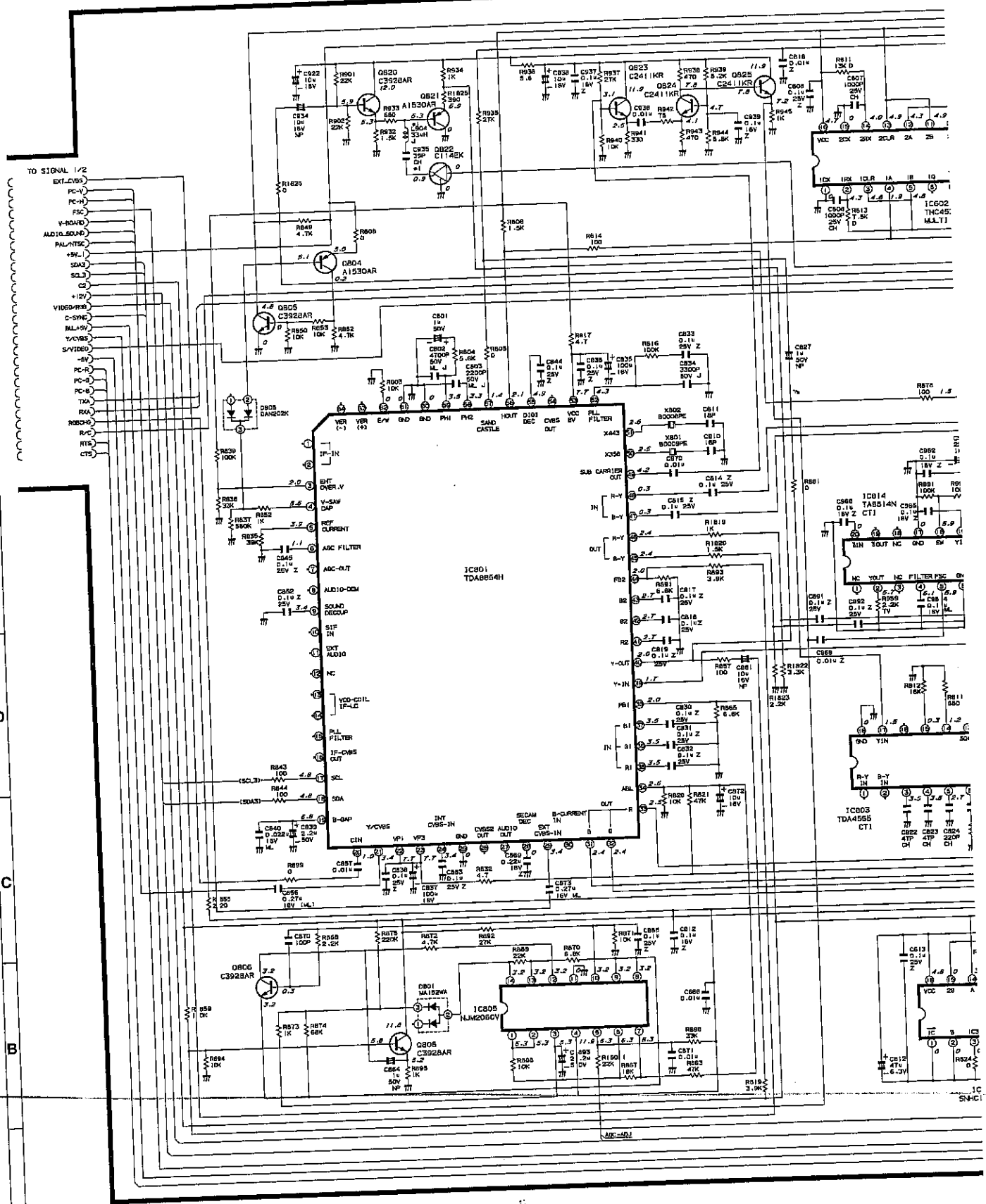
⑬ Q6003 Emitter
(CHROMA signal)
H : 10µsec/div
V : 0.2V/div

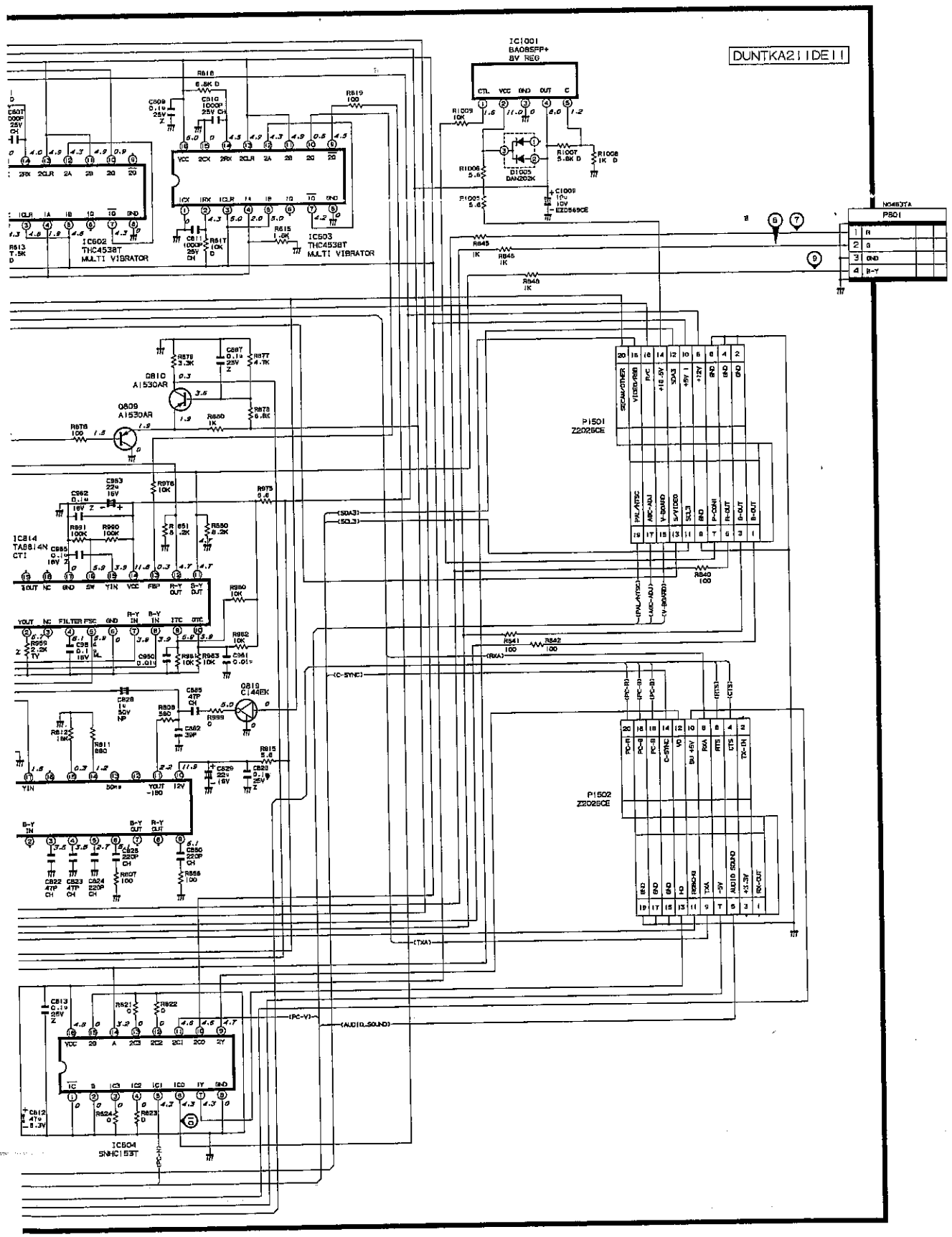
# ■ SIGNAL UNIT-1/2 / SIGNALEINHEIT-1/2(XG-C40XU)




IC808
PST5000M
IC809
TC90A11F
IC807
M5l8221A
Q418
C3928AR
Q910
C3928AR
Q411
C3928AR
IC406
BA7046F
Q422
2SC2411KR
P402
VIDEO
GND
S-C
VIDEO AUDIO L
V-OUT
+12V
NC
COMB-Y
4FSC
PAL/NTSC
COMB-C
+5V
V-BOARD
S/VIDEO
VIDEO AUDIO R
S-Y
TO SIGNAL 2/2
EXT_CVBS
PC-V
PC-H
FSC
V-BOARD
AUDIO_SOUND
PAL/NTSC
SDA3
SCL3
+12V
VIDEO/RGB
C-SYNC
Y/CVBS
S/VIDEO
-5V
TXA
RXA
RTS
CTS

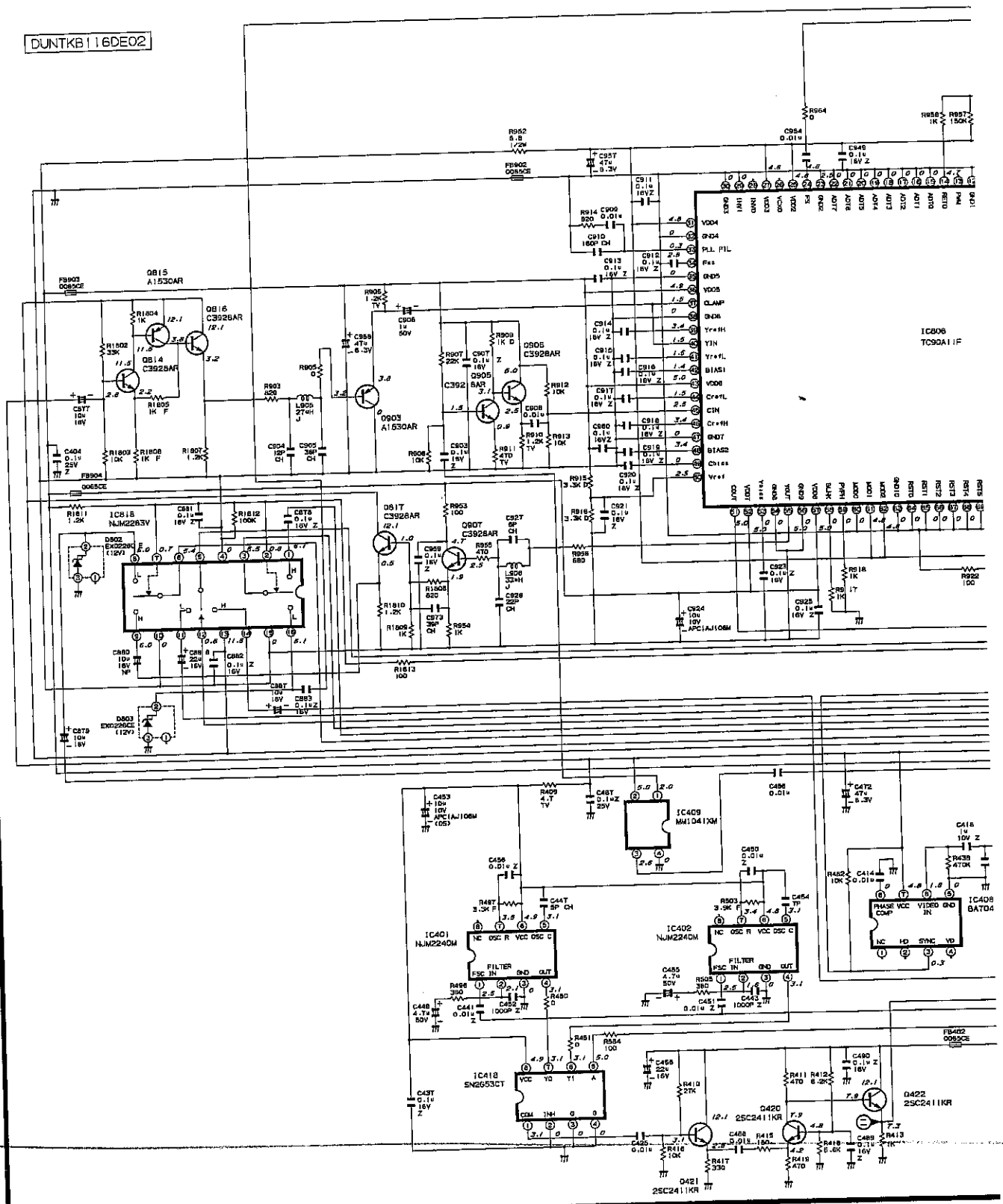
# ■ SIGNAL UNIT-2/2 / SIGNALEINHEIT-2/2(XG-C40XU)

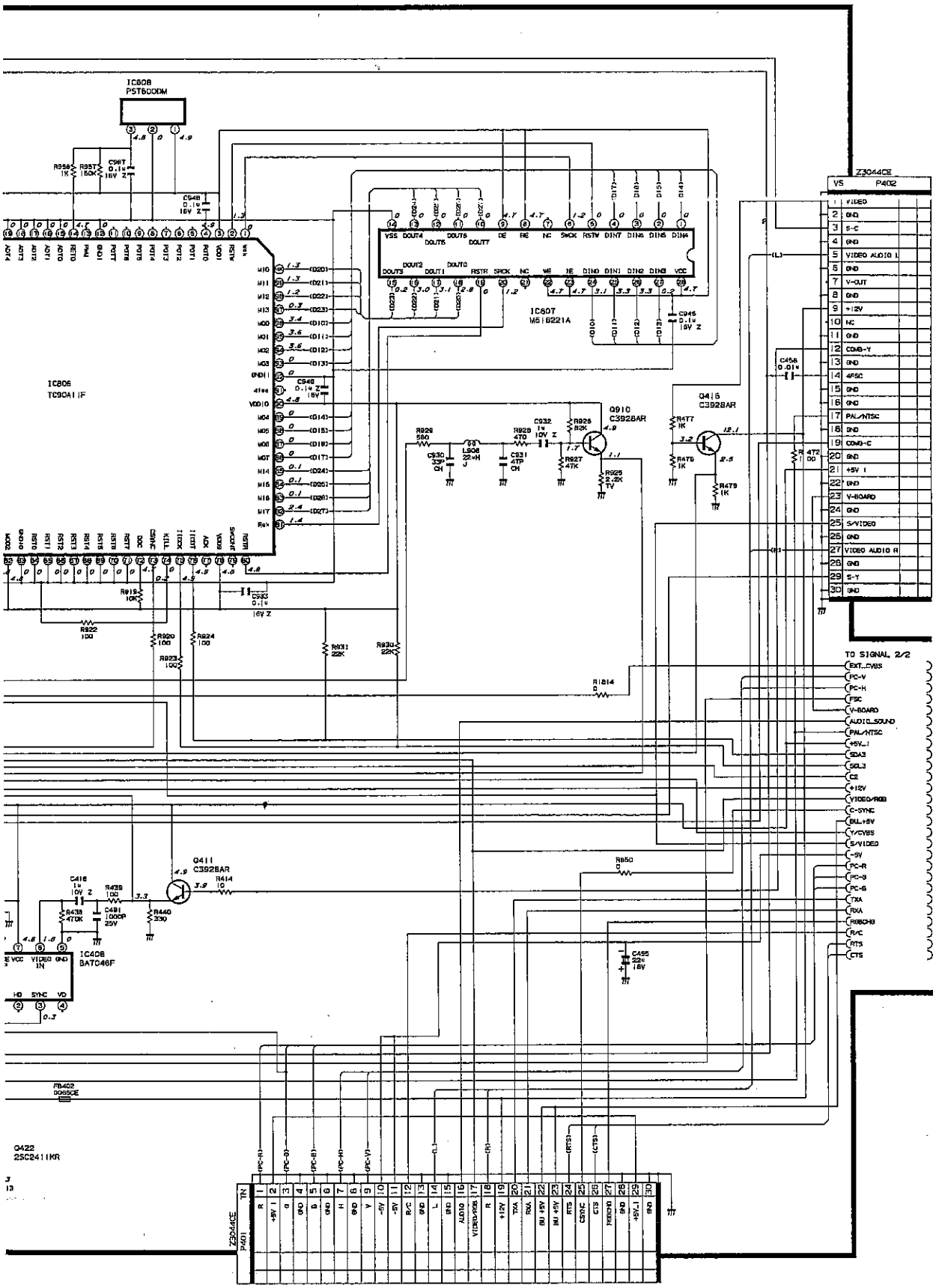




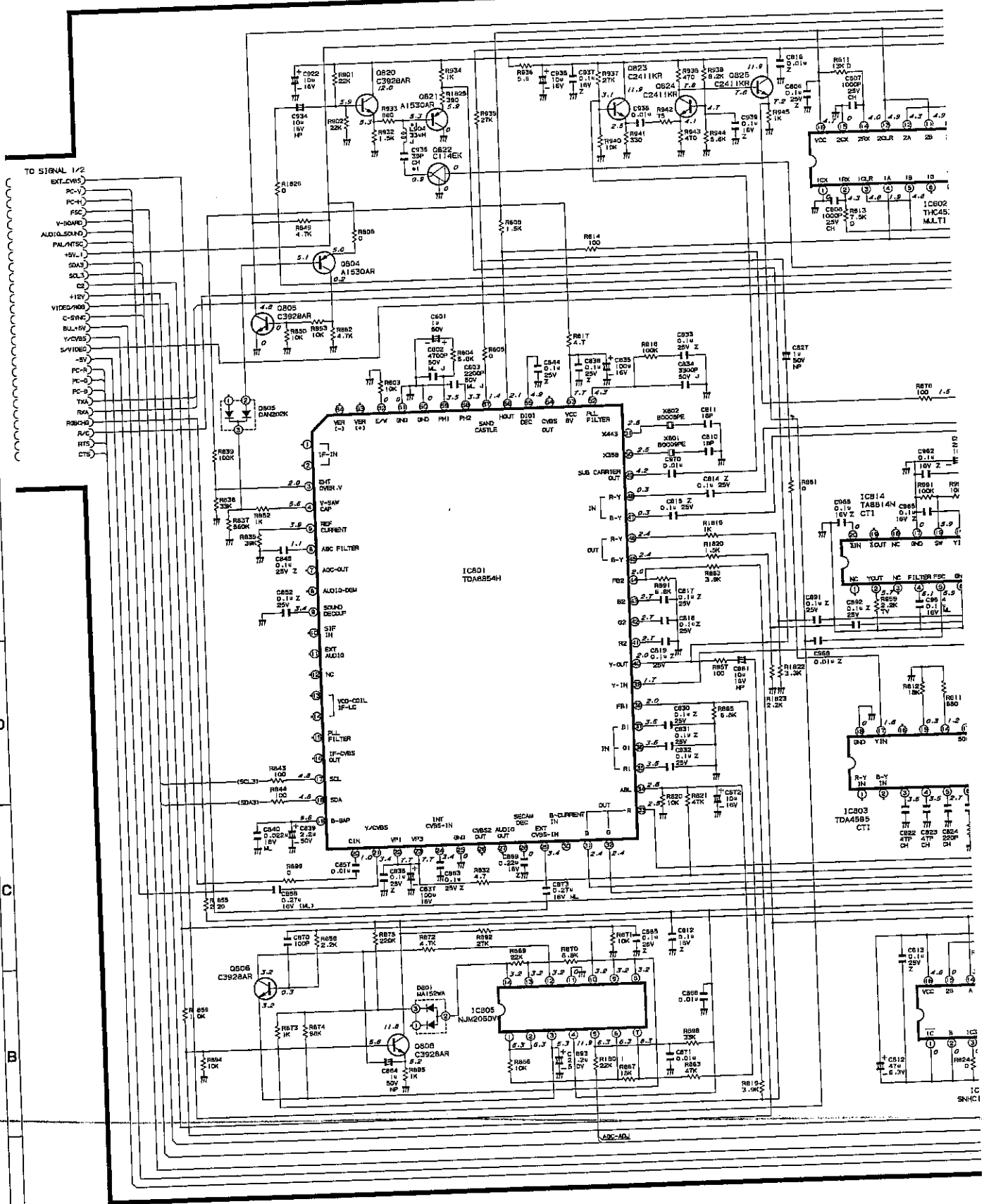

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

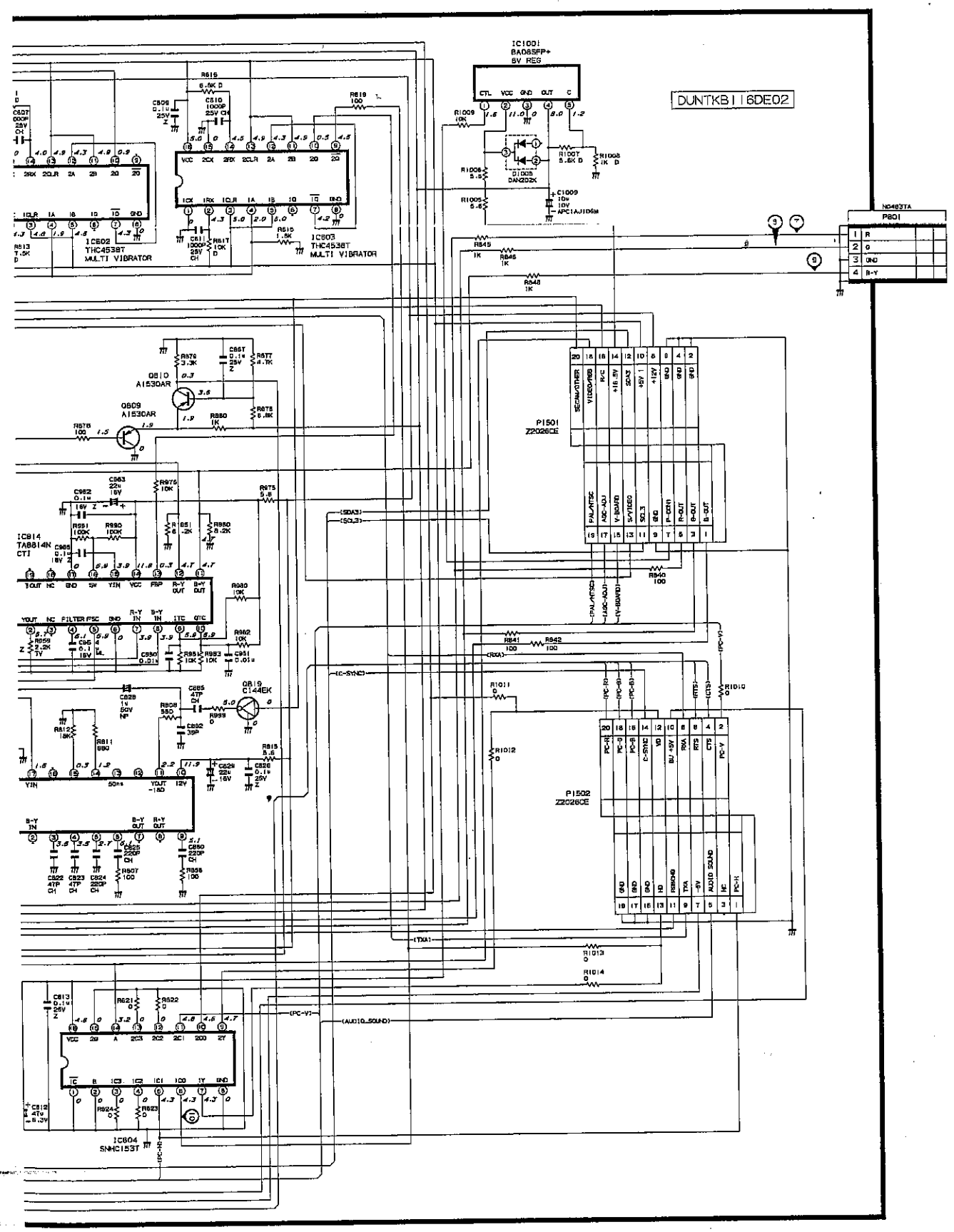
# ■ SIGNAL UNIT-1/2 / SIGNALEINHEIT-1/2(XG-C40XE)




IC808
PST6000M
IC806
TC90A11F
IC807
M51822LA
Q910
C3928AR
Q415
C3928AR
Q411
C3928AR
IC406
BAT046F
Q422
2SC2411KR
Z3044CE
P402
Z3044CE
P401
TO SIGNAL 2/2

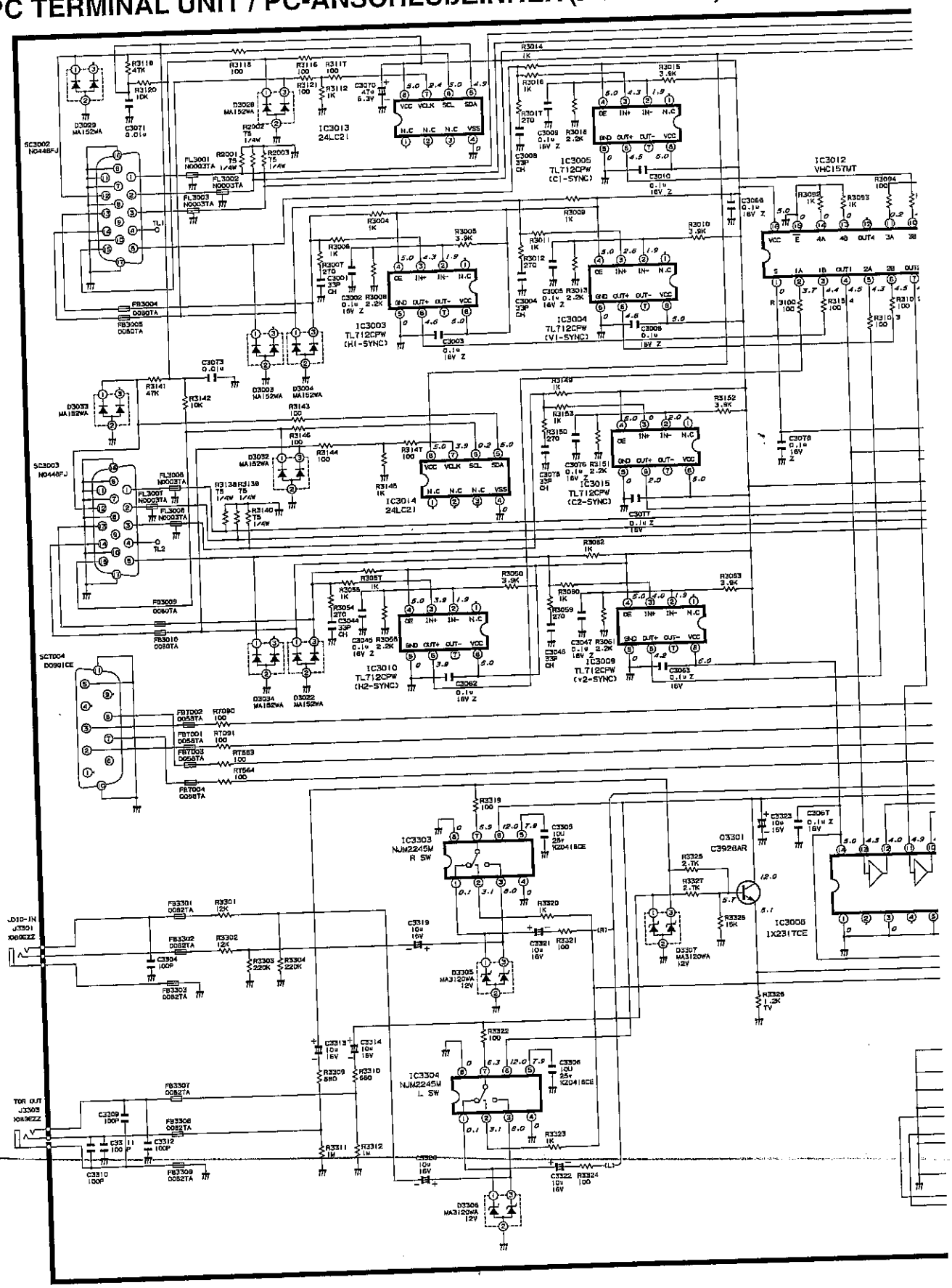
# ■ SIGNAL UNIT-2/2 / SIGNALEINHEIT-2/2(XG-C40XE)

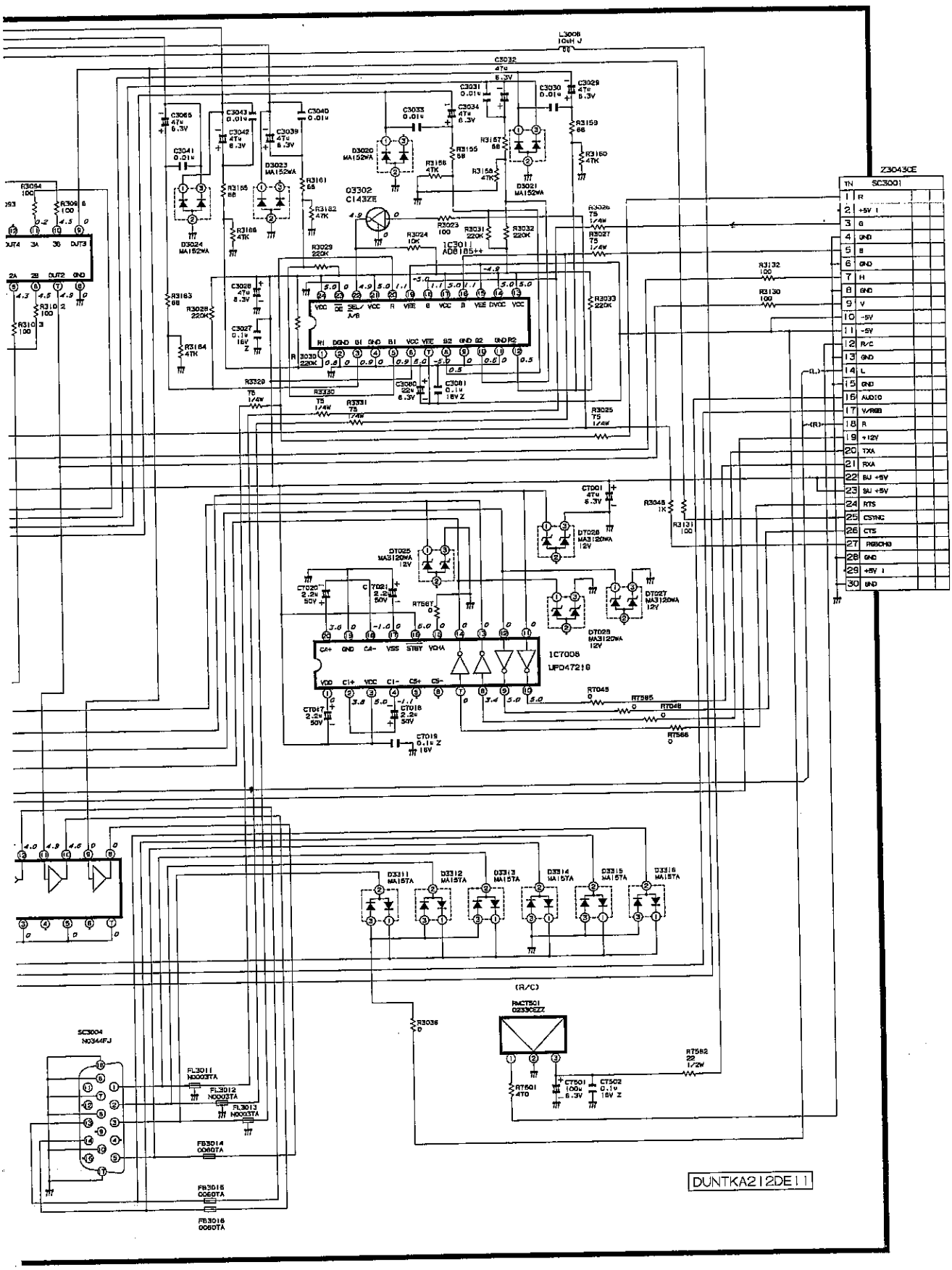




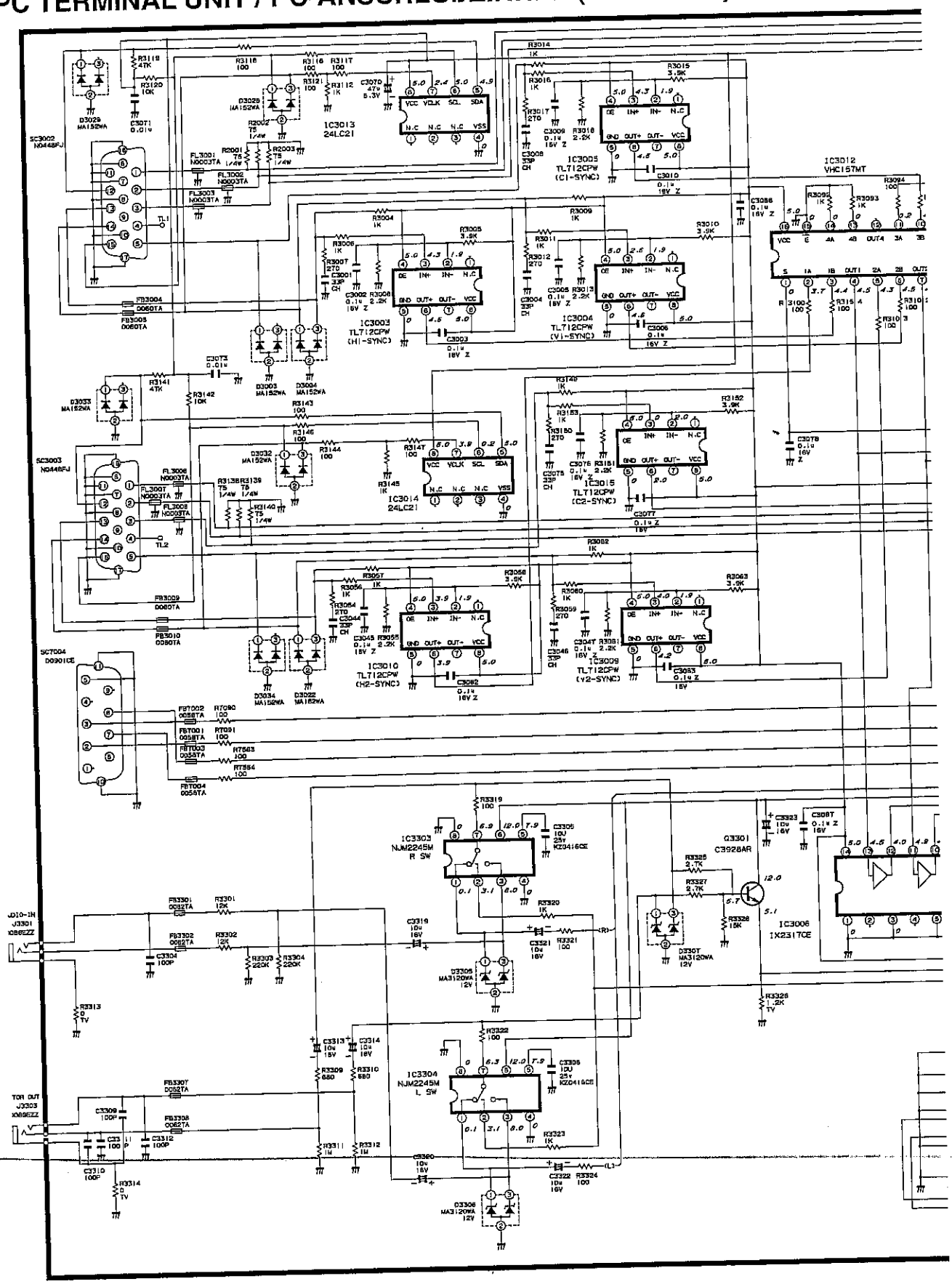

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

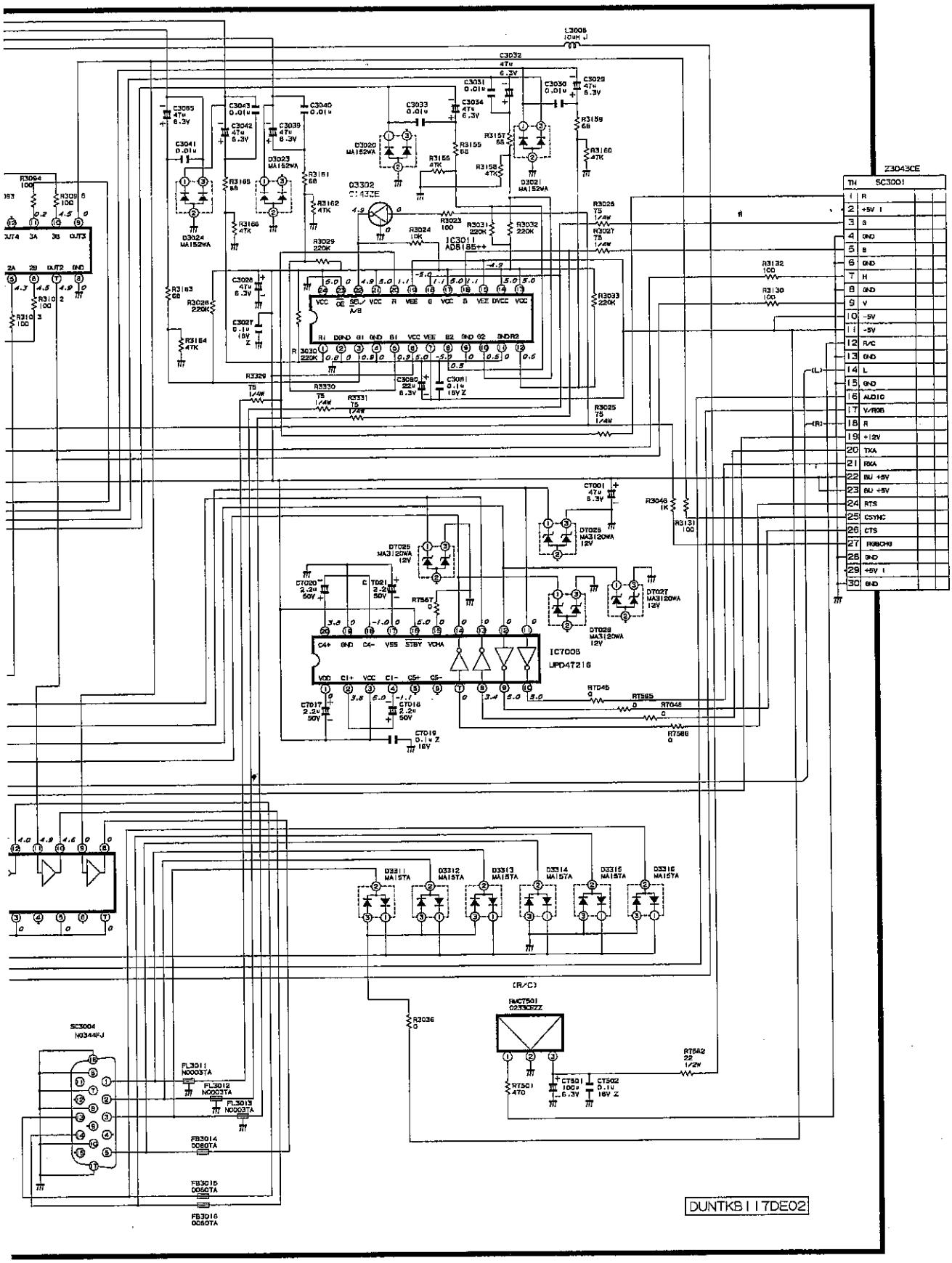
# ■ PC TERMINAL UNIT / PC-ANSCHLUßEINHEIT(XG-C40XU)



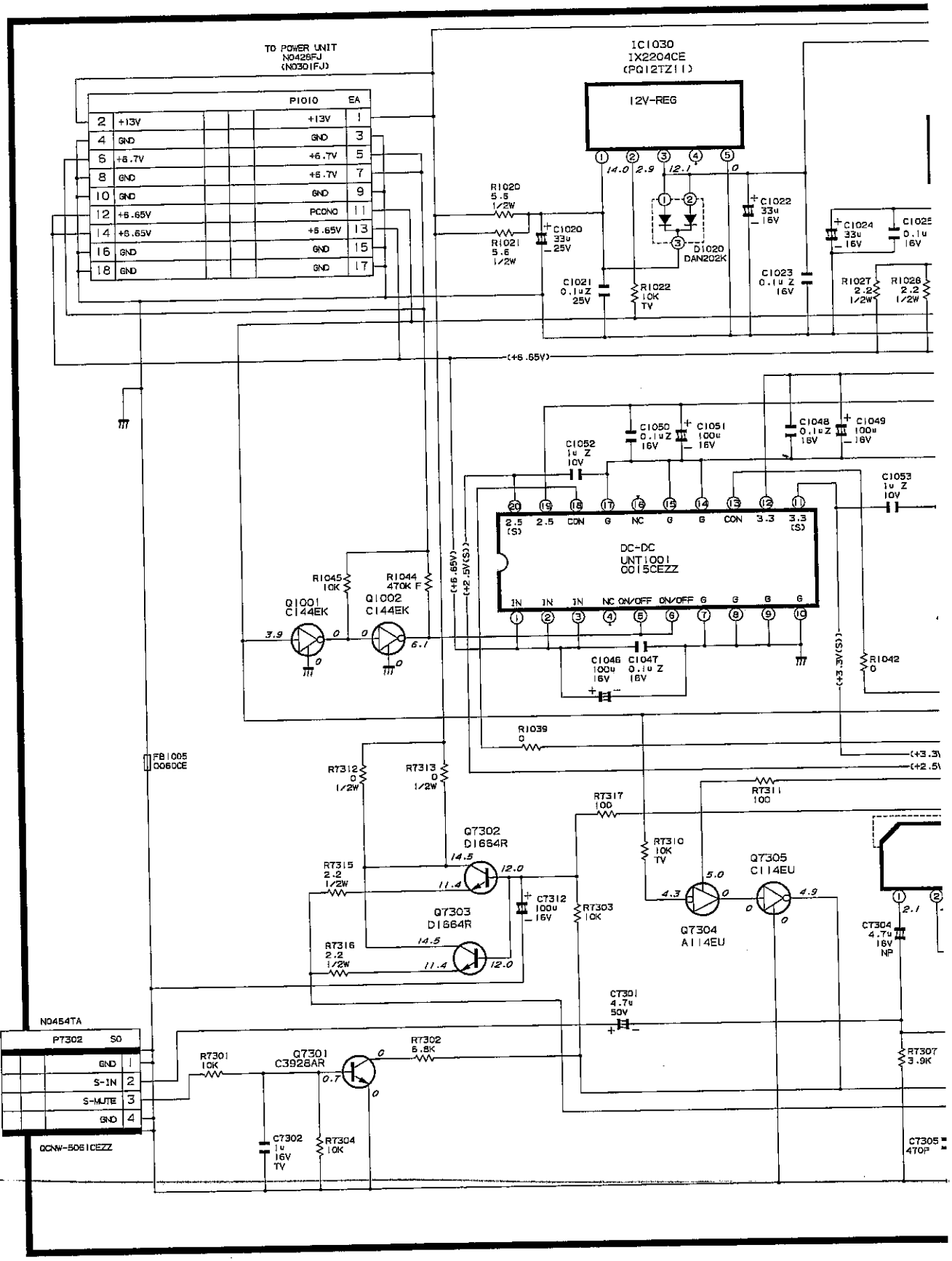

DUNTKA212DE11
SC3001
Z30430E
1C7008
UPD4721B
(R/C)
SC3004
NG344FJ

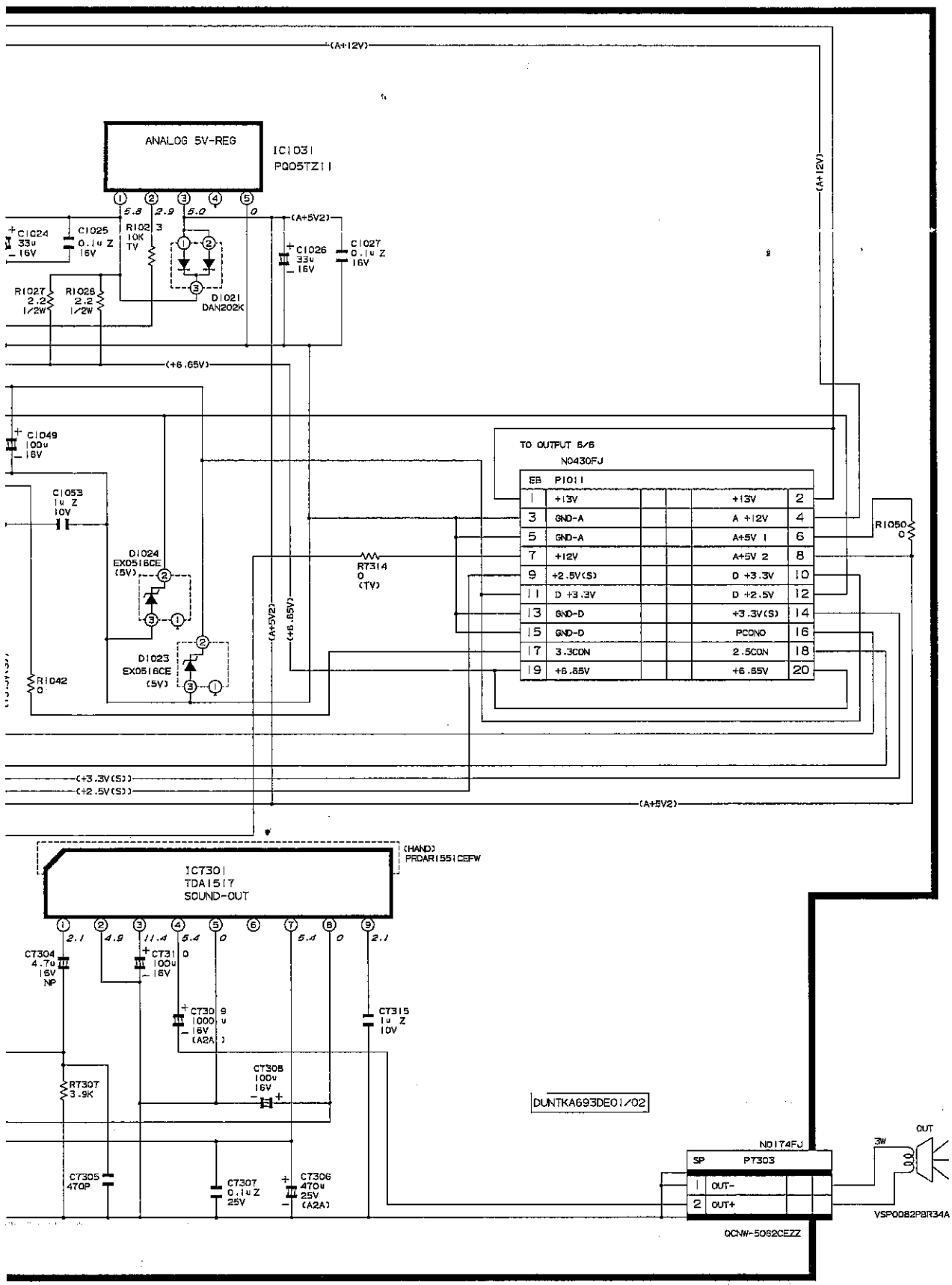
# ■ PC TERMINAL UNIT / PC-ANSCHLUßEINHEIT(XG-C40XE)




Z3043CE
SC3001
IC3011
AD8185++
IC7005
UPD4721G
SC3004
N0344FJ
DUNTKB117DE02

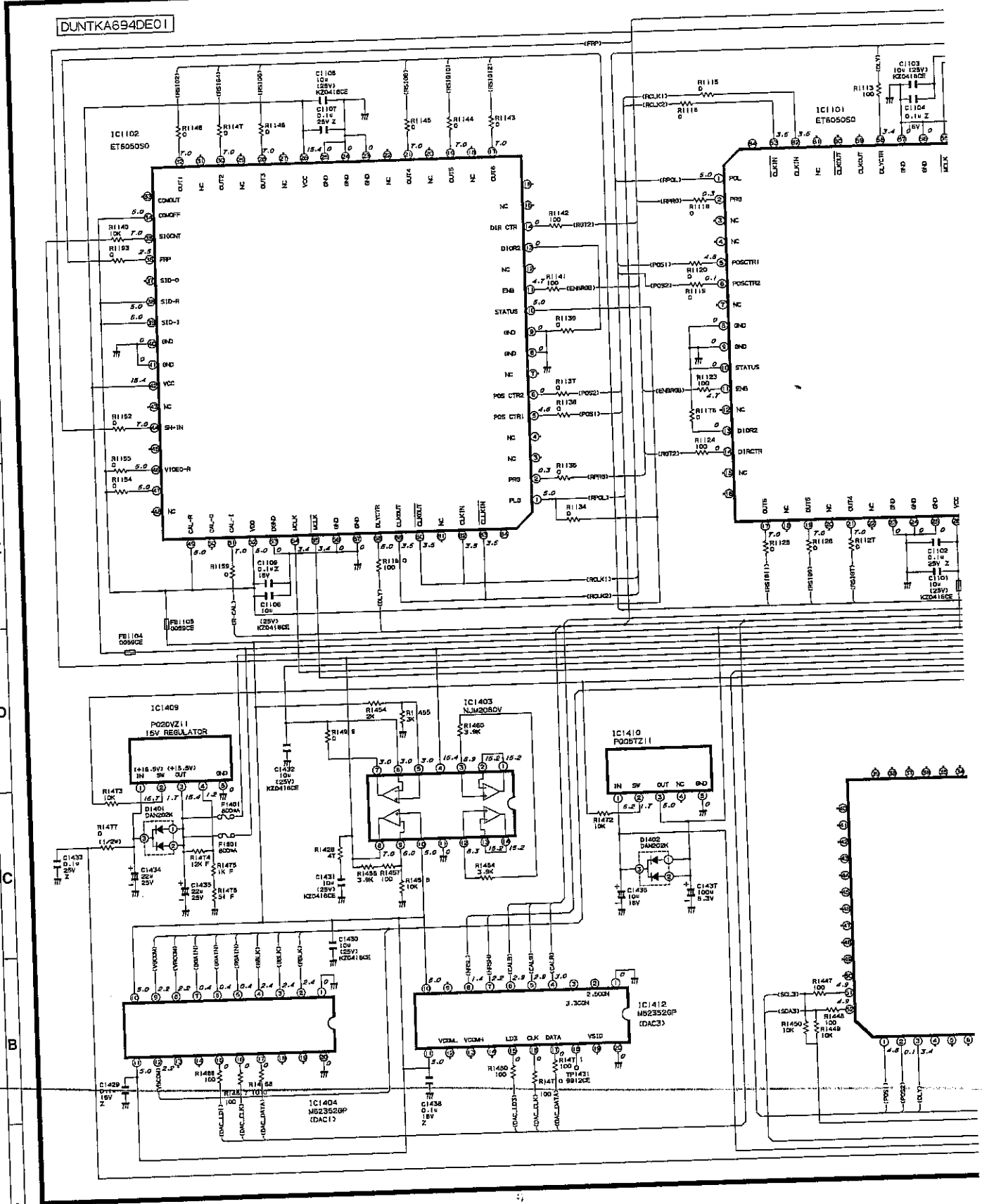
# ■ SOUND OUT and REGULATOR UNIT / TONAUSGABE-und REGLEREINHEIT

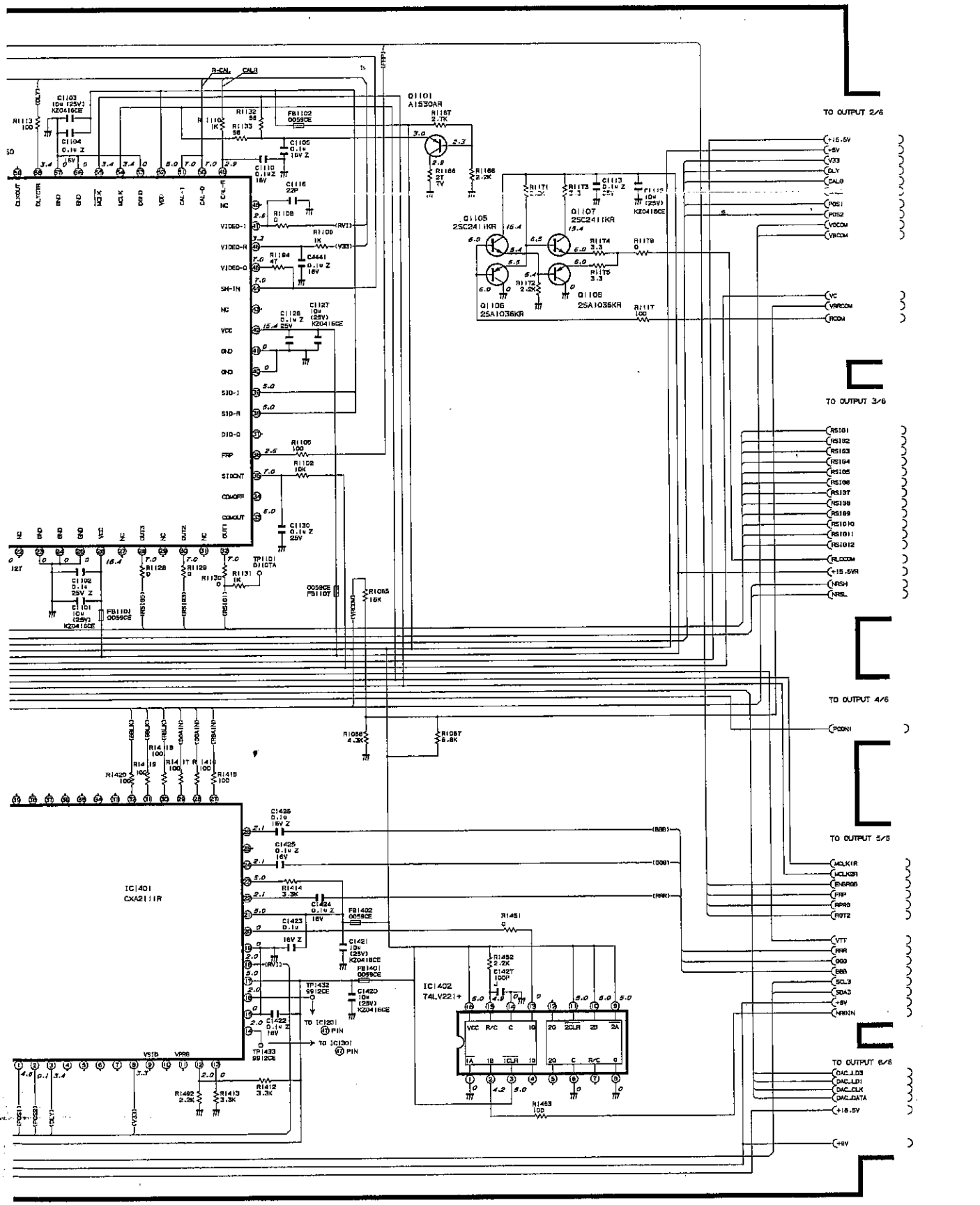




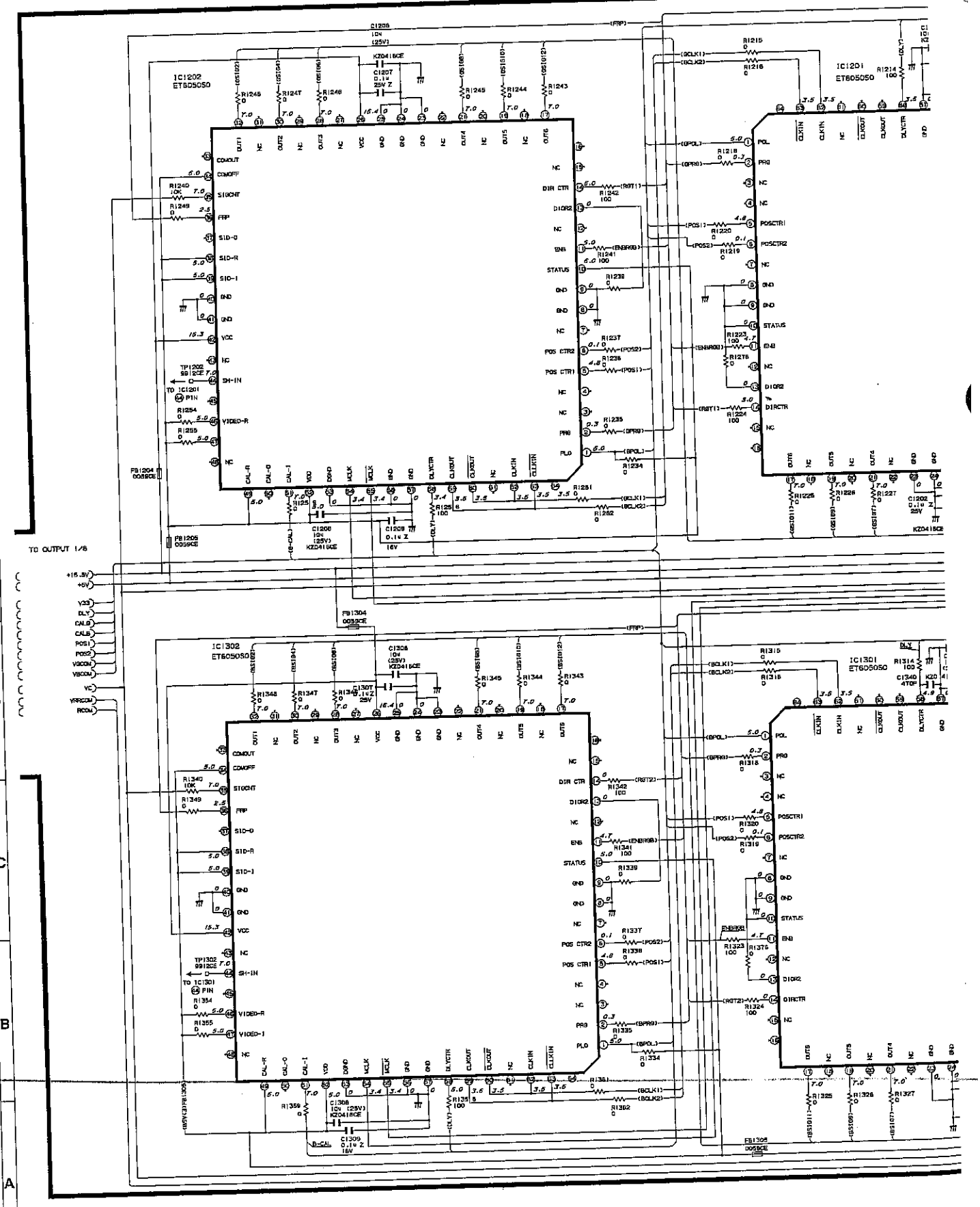

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

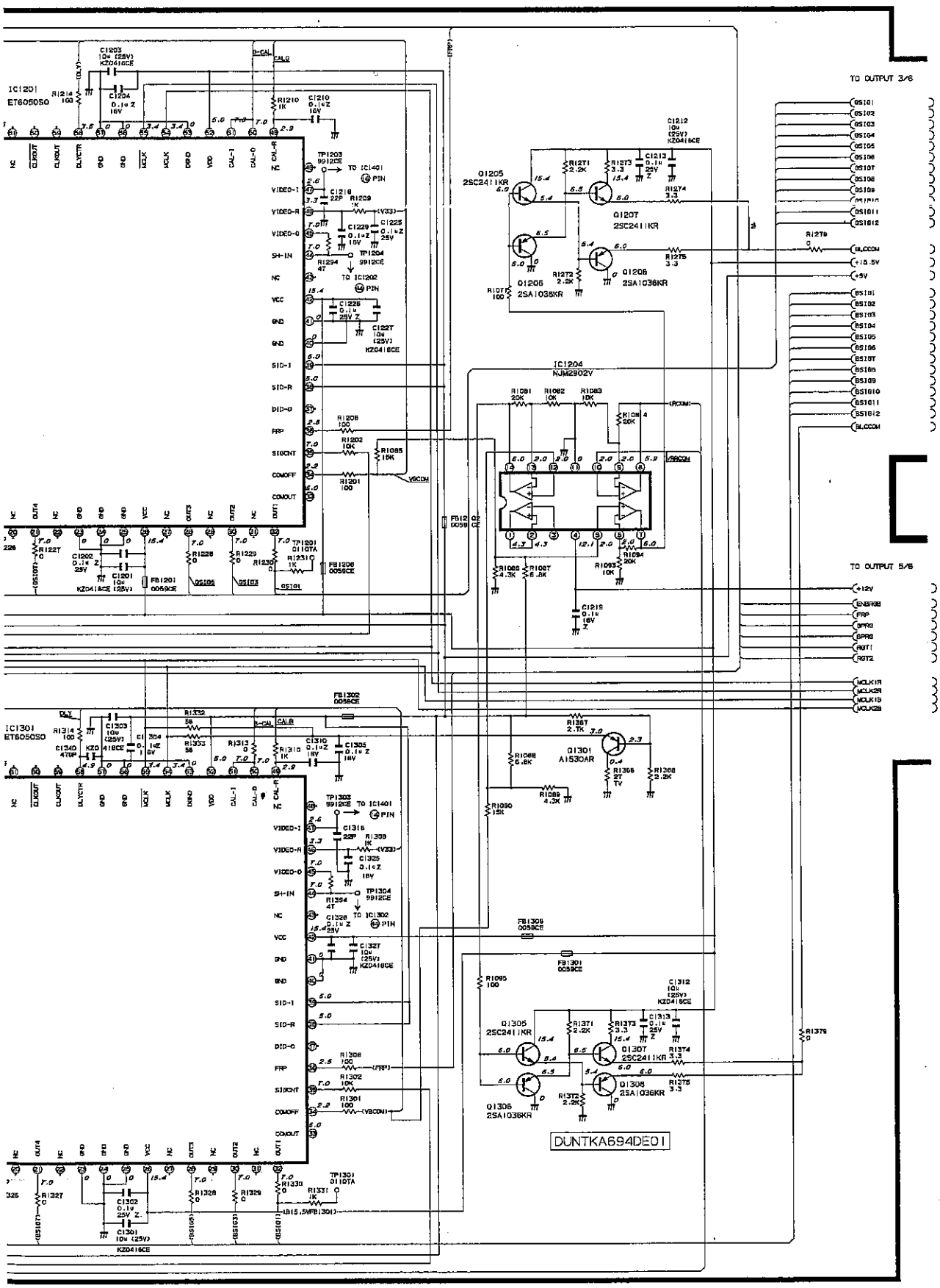
# ■ OUTPUT UNIT-1/6 / AUSGABEEINHEIT-1/6



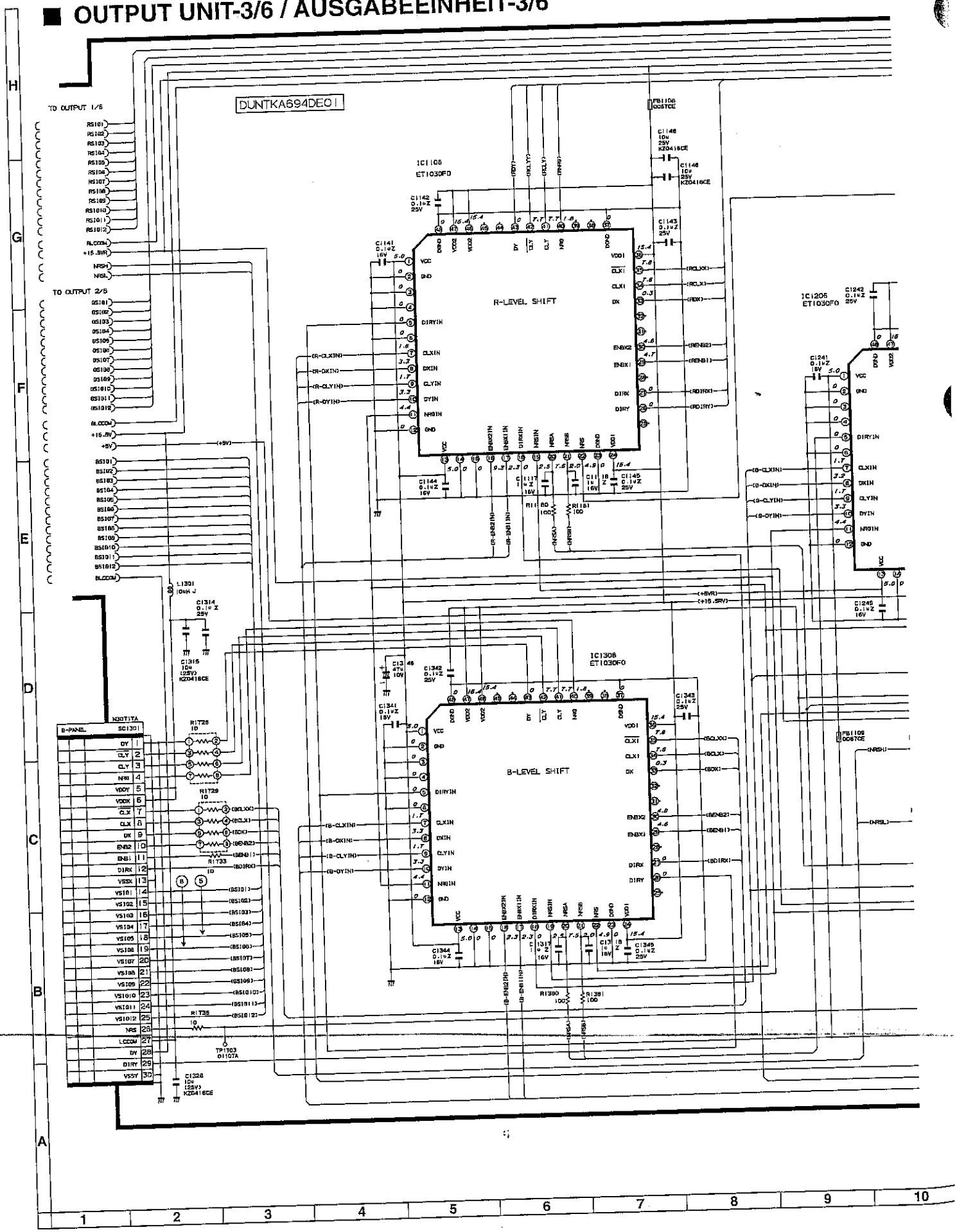

TO OUTPUT 2/6
TO OUTPUT 3/6
TO OUTPUT 4/6
TO OUTPUT 5/6
TO OUTPUT 6/6
IC1401
CXA2111R
IC1402
74LV221+
Q1101
A1530AR
Q1105
2SC2411KR
Q1107
2SC2411KR
Q1106
2SA1036KR
Q1108
2SA1036KR

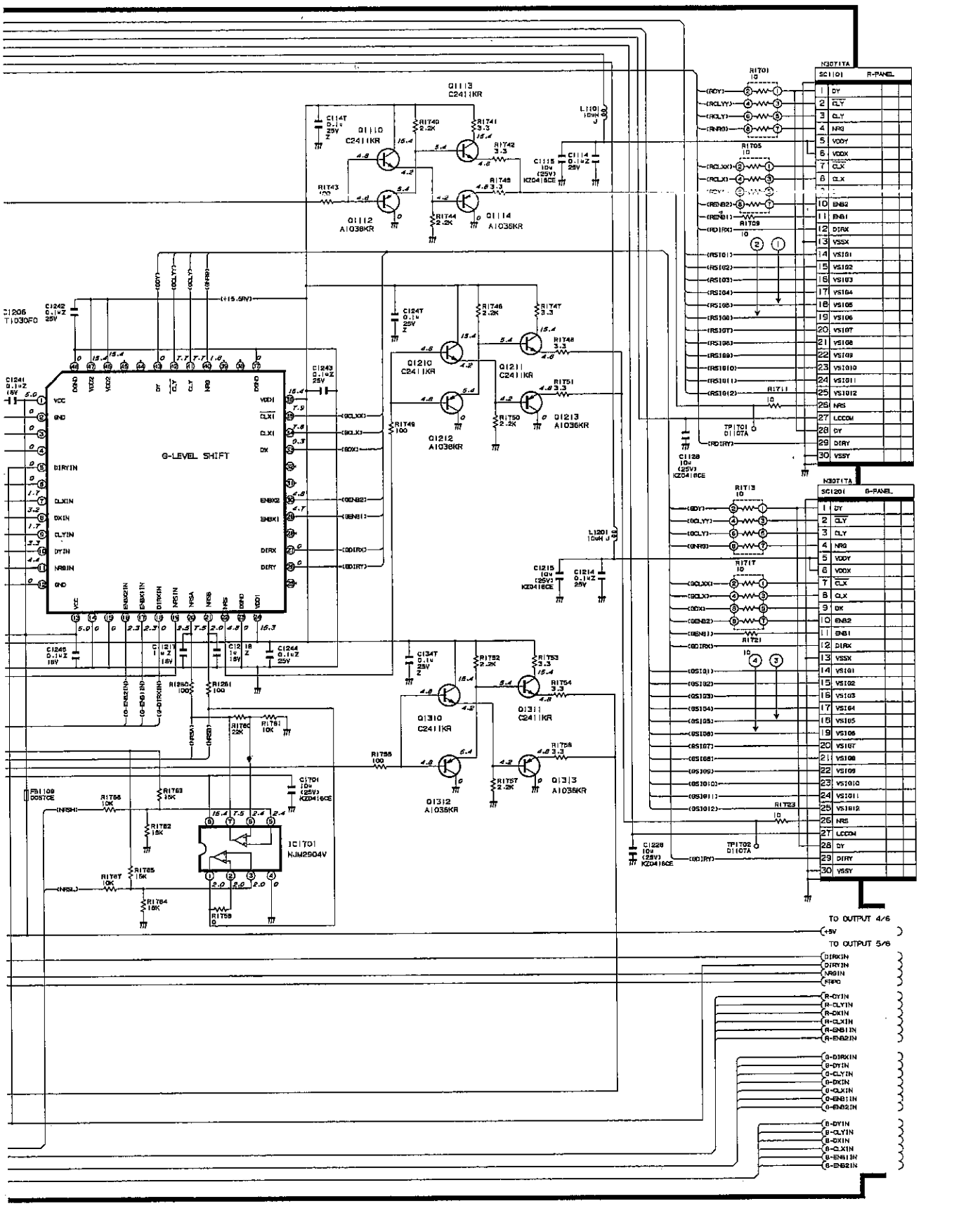
# ■ OUTPUT UNIT-2/6 / AUSGABEEINHEIT-2/6




TO OUTPUT 3/6
TO OUTPUT 5/6
IC1201
ET6050SO
IC1204
NJM2902V
IC1301
ET6050SO
Q1205
2SC2411KR
Q1207
2SC2411KR
Q1206
2SA1036KR
Q1208
2SA1036KR
Q1301
A1530AR
Q1305
2SC2411KR
Q1307
2SC2411KR
Q1306
2SA1036KR
Q1308
2SA1036KR
DUNTKA694DE01

# ■ OUTPUT UNIT-3/6 / AUSGABEEINHEIT-3/6

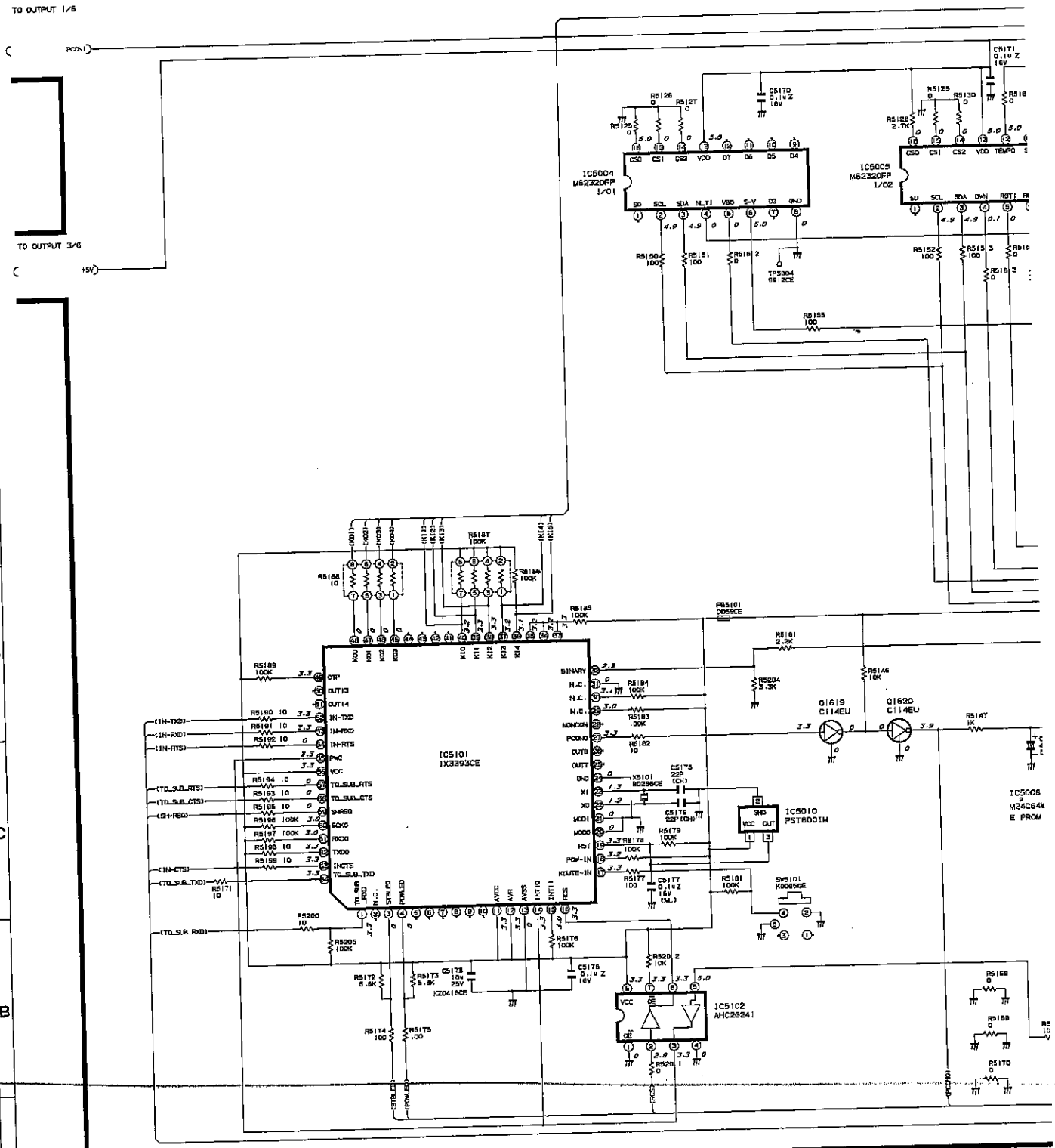


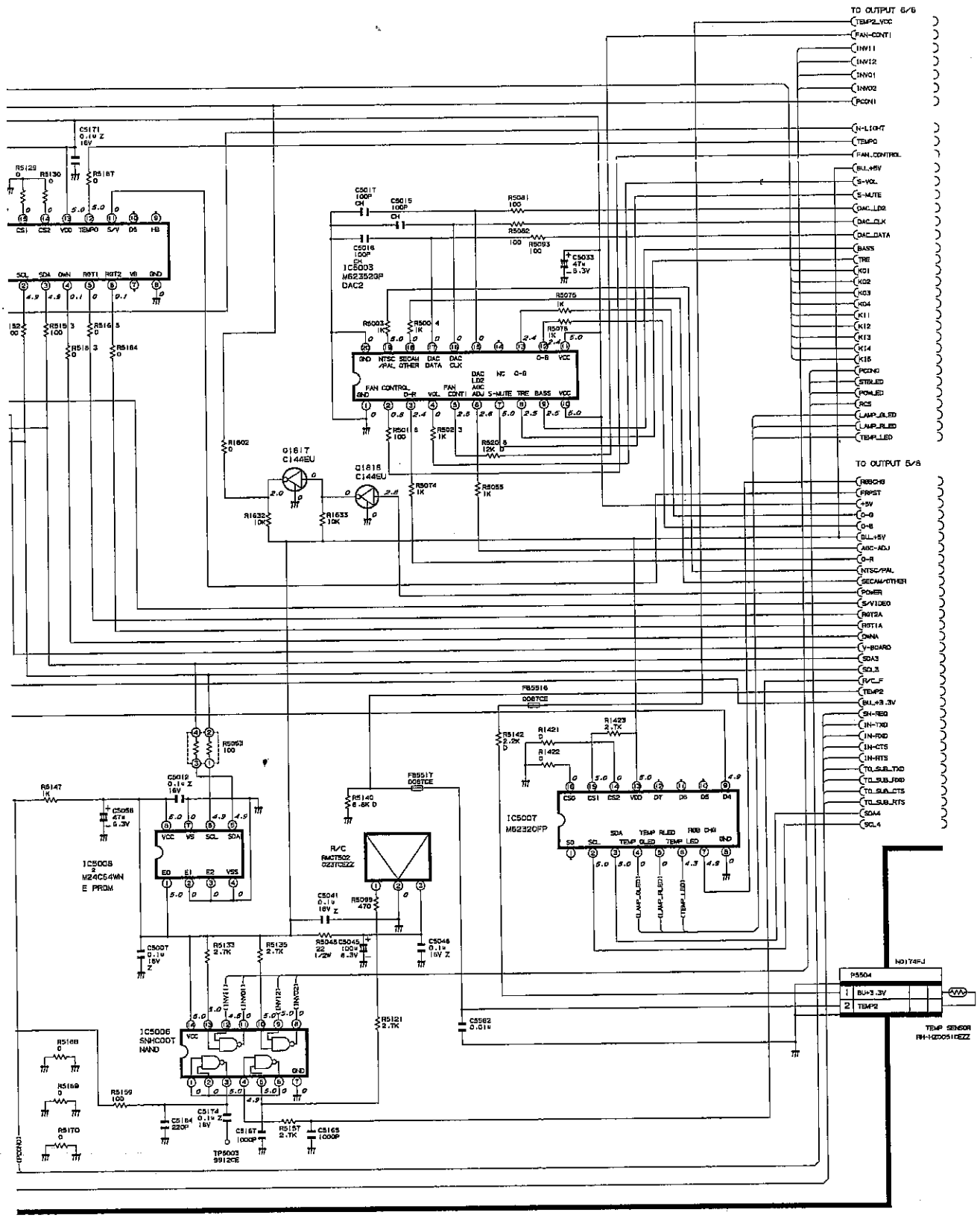



| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

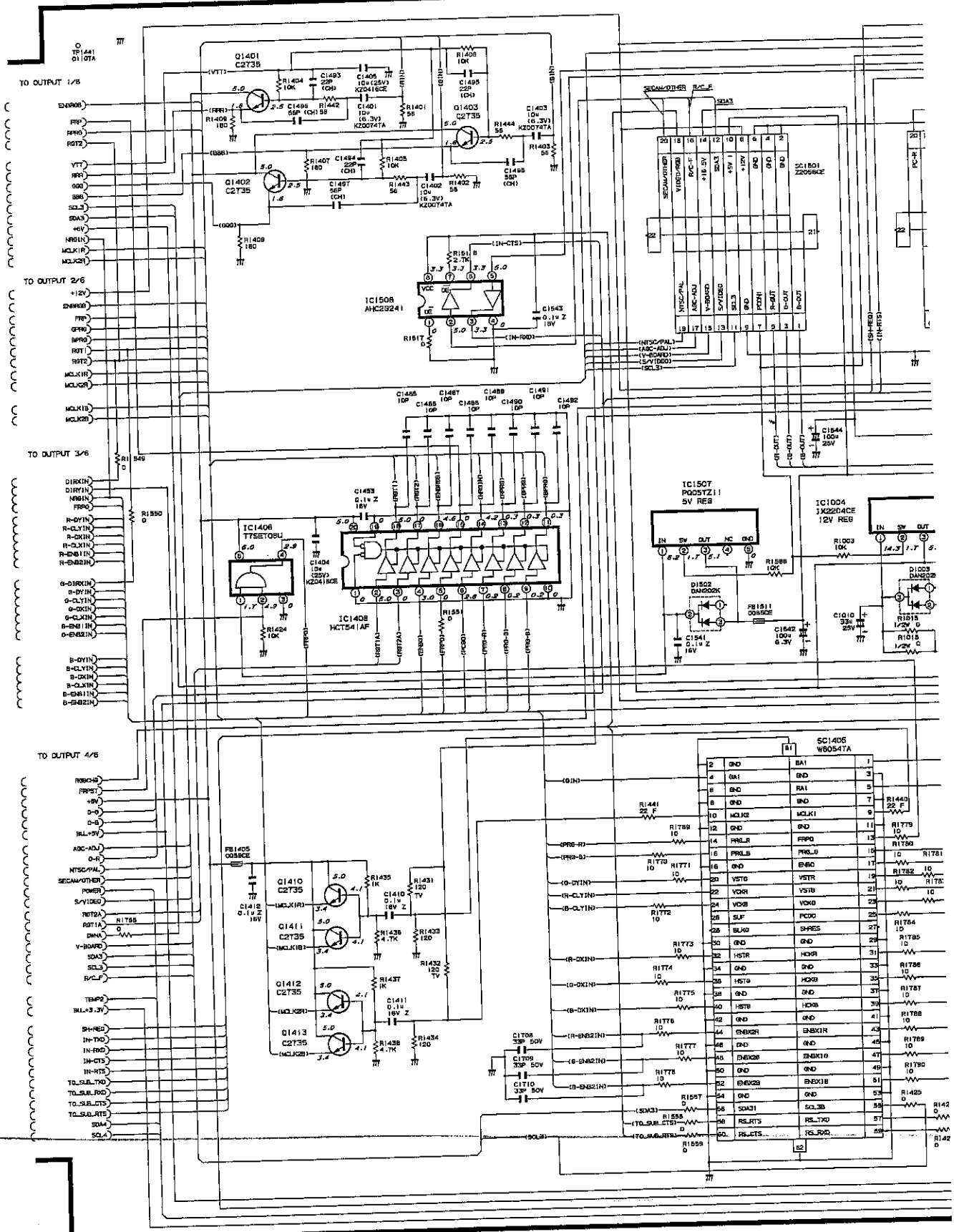
# ■ OUTPUT UNIT-4/6 / AUSGABEEINHEIT-4/6

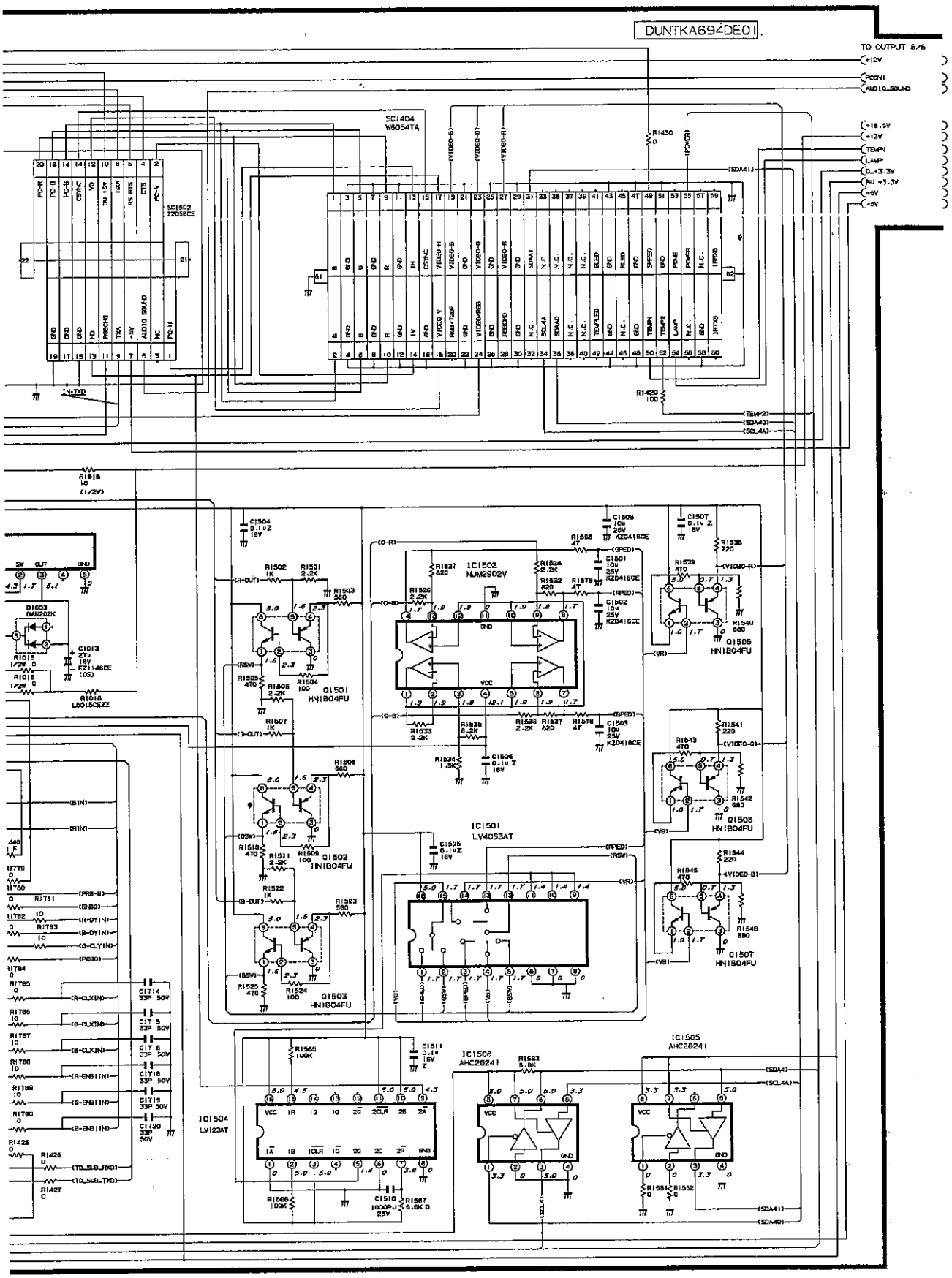
DUNTKA694DE01




TO OUTPUT 6/6
TEMP2_VCC
FAN-CONT
INV11
INV12
INV01
INV02
PCON1
N-LIGHT
TEMP0
FAN_CONTROL
BU_+5V
S-VOL
S-MUTE
DAC_LD2
DAC_CLK
DAC_DATA
BASS
TRE
KD1
KD2
KD3
KD4
KI1
KI2
KI3
KI4
KI5
PCON2
STBLED
POWLED
RC5
LAMP_G_LED
LAMP_R_LED
TEMP_LED
TO OUTPUT 5/6
R88CH9
FRPST
+5V
O-G
O-B
BU_+5V
ABC-ADJ
O-R
NTSC/PAL
SECAM/OTHER
POWER
S/VIDEO
RST2A
RST1A
DWNA
V-BOARD
SDA3
SCL3
R/C_F
TEMP2
BU_+3.3V
SH-REQ
IN-TXD
IN-RXD
IN-CTS
IN-RTS
TO_SUB_TXD
TO_SUB_RXD
TO_SUB_CTS
TO_SUB_RTS
SDA4
SCL4
IC5003
M62352GP
DAC2
IC5007
M62352FP
IC5008
M24C64WN
E PROM
IC5006
SN74C00T
NAND
R/C
RM-T502
TEMP SENSOR
RH-IZ0051DEZZ
TP5002

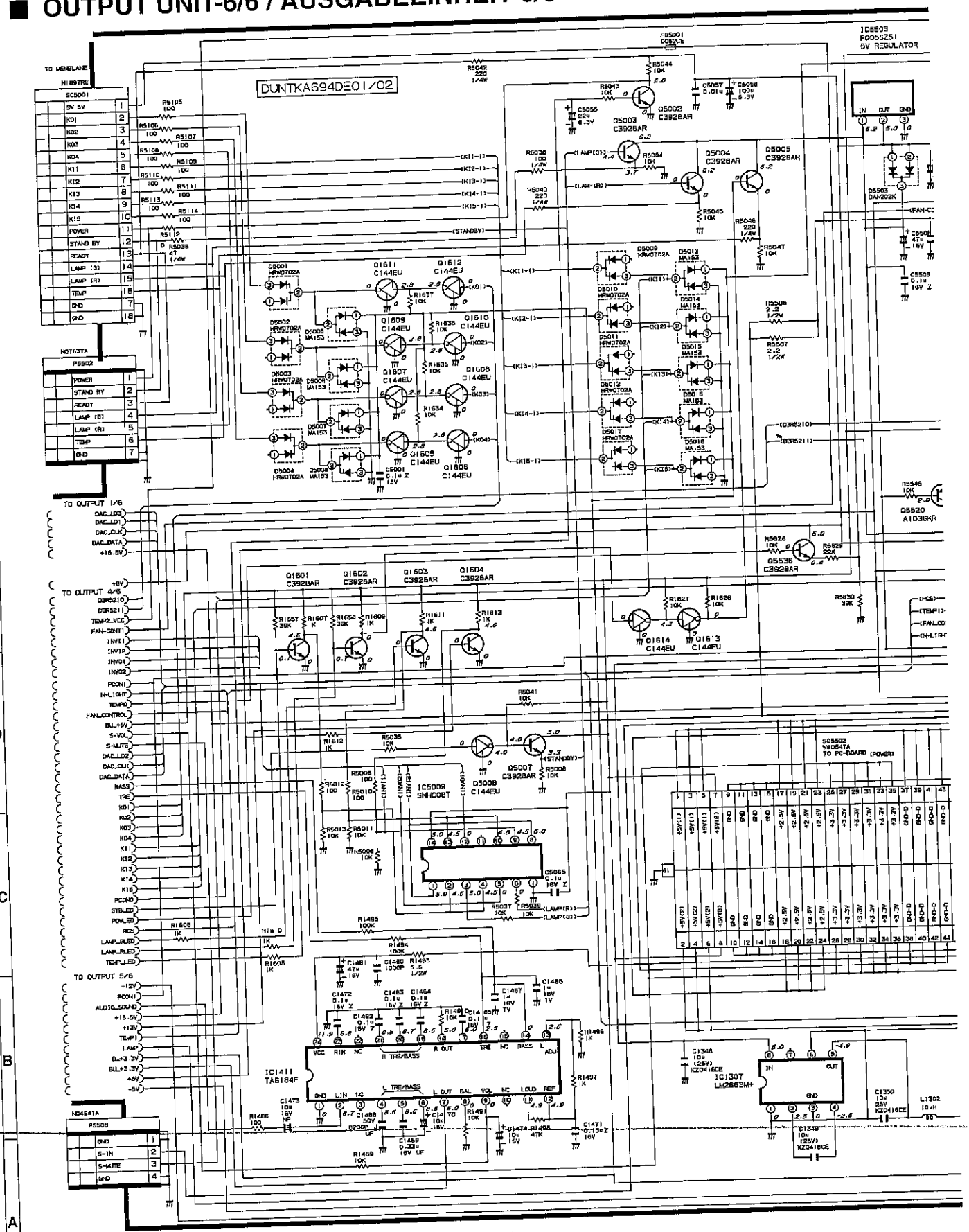
# ■ OUTPUT UNIT-5/6 / AUSGABEEINHEIT-5/6

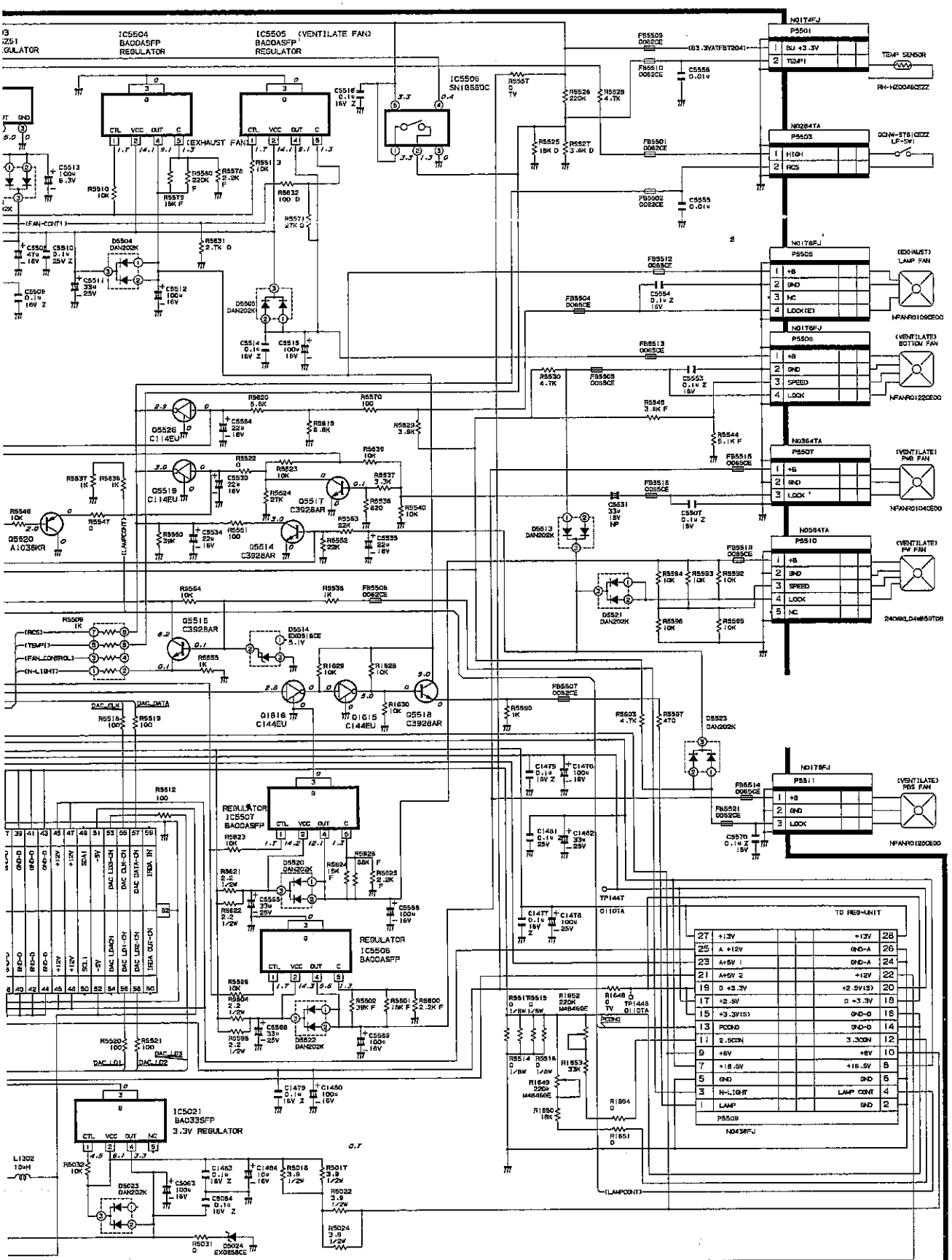




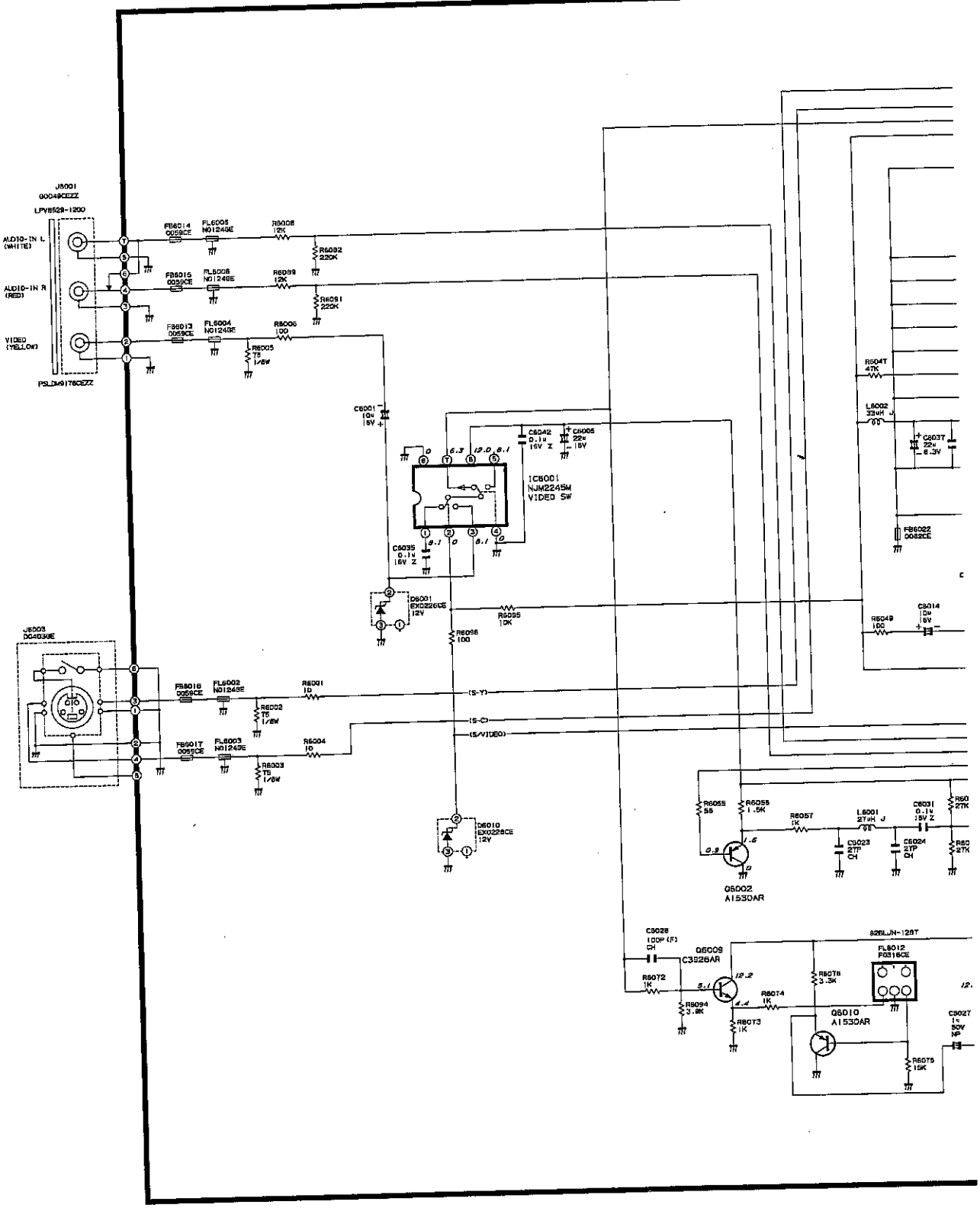

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

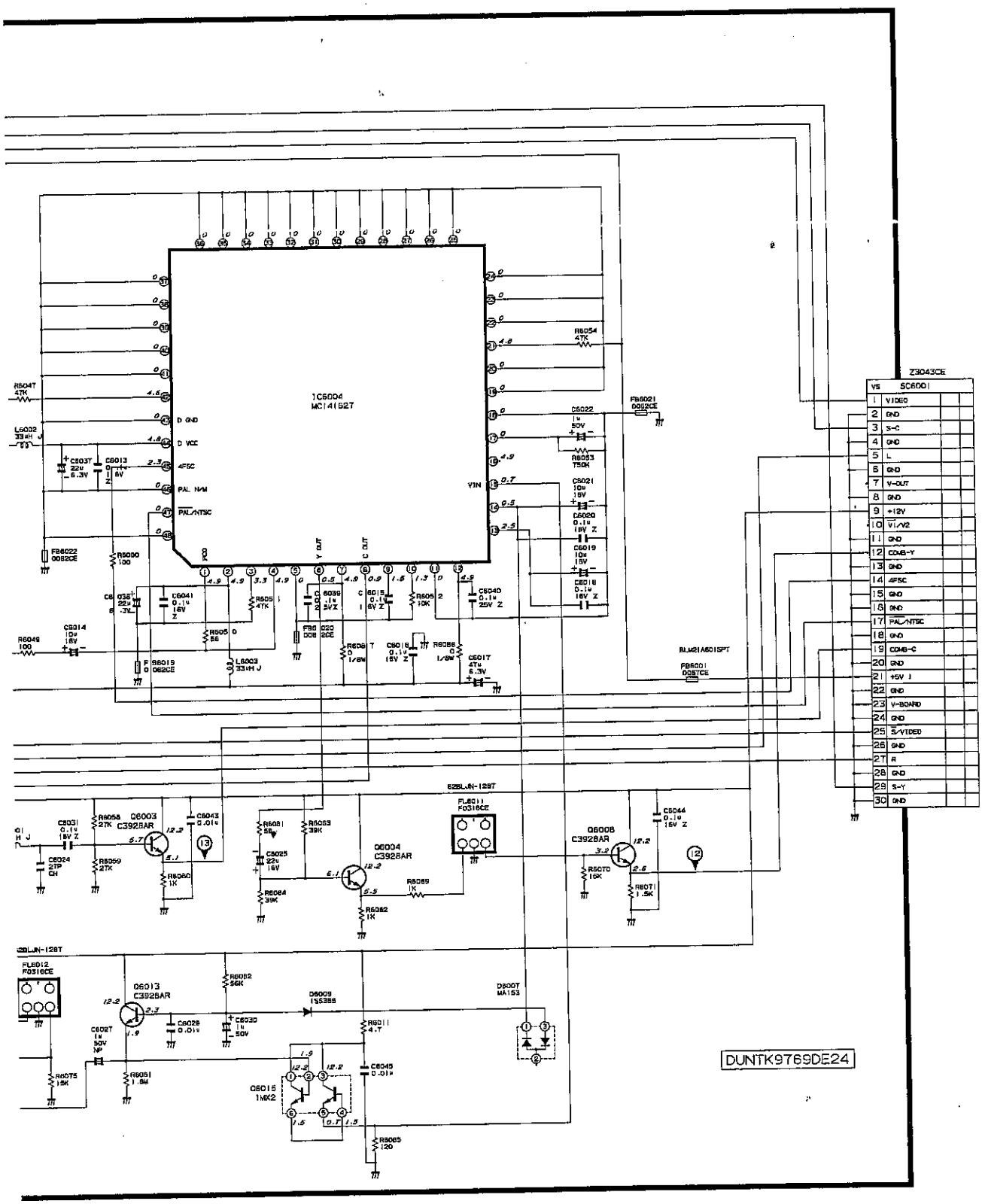
# ■ OUTPUT UNIT-6/6 / AUSGABEEINHEIT-6/6



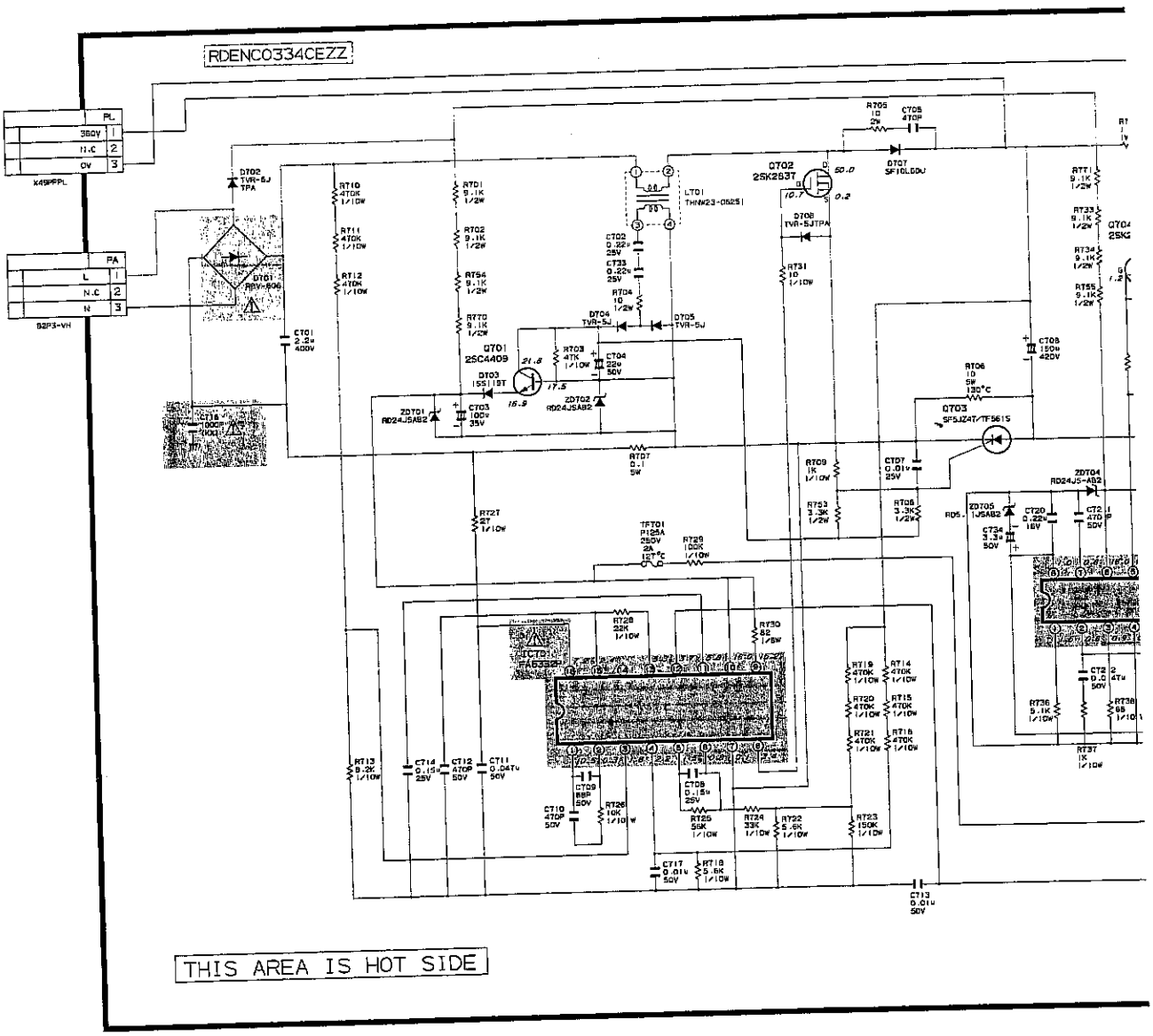

IC5504
BA00ASFP
REGULATOR
IC5505 (VENTILATE FAN)
BA00ASFP
REGULATOR
IC5506
SN1655DC
(EXHAUST FAN)
(FAN-CONT)
(LAMPCONT)
(RCS)
(TEMP)
(FAN_CONTROL)
(N-LIGHT)
DAC_CLK
DAC_DATA
REGULATOR
IC5507
BA00ASFP
REGULATOR
IC5508
BA00ASFP
IC5021
BA033SFP
3.3V REGULATOR
P5501
P5503
P5505
P5506
P5507
P5510
P5511
TEMP SENSOR
RH-HZ00465ZZZ
(EXHAUST) LAMP FAN
(VENTILATE) BOTTOM FAN
(VENTILATE) PWR FAN
(VENTILATE) PWR FAN
(VENTILATE) PBS FAN
TO REG-UNIT
P5509
Q5526 C114EU
Q5519 C114EU
Q5520 A1038KR
Q5517 C3928AR
Q5514 C3928AR
Q1616 C144EU
Q1615 C144EU
Q5518 C3928AR

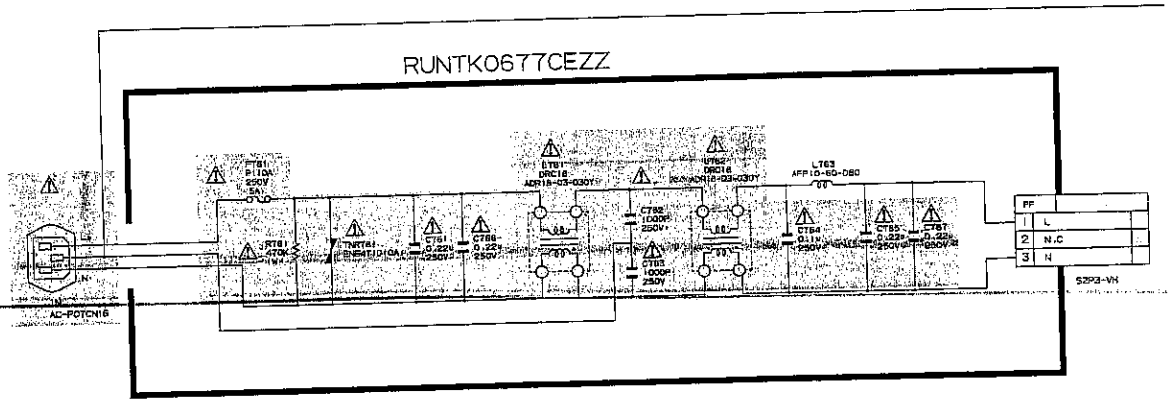
# ■ VIDEO UNIT / VIDEOEINHEIT

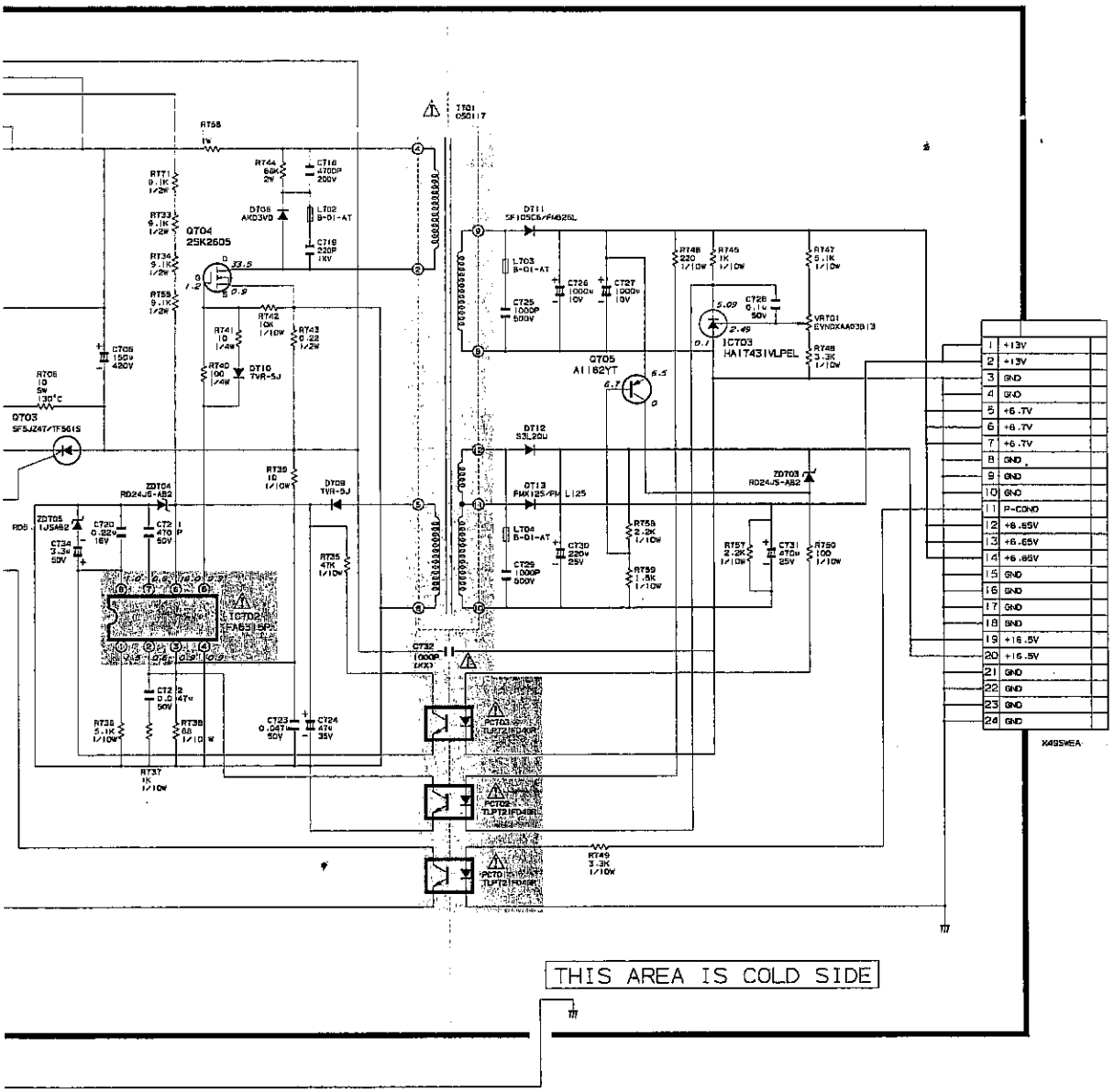



IC5004
MC141527
D GND
D VCC
4FSC
PAL H/M
PAL/NTSC
VIN
Y OUT
C OUT
Z3043CE
SC6001
1 VIDEO
2 GND
3 S-C
4 GND
5 L
6 GND
7 Y-OUT
8 GND
9 +12V
10 V1/V2
11 GND
12 COMB-Y
13 GND
14 4FSC
15 GND
16 GND
17 PAL/NTSC
18 GND
19 COMB-C
20 GND
21 +5V
22 GND
23 V-BOARD
24 GND
25 S-VIDEO
26 GND
27 R
28 GND
29 S-Y
30 GND
Q6003 C3928AR
Q6004 C3928AR
Q6006 C3928AR
Q6013 C3928AR
Q6015 1MX2
D6009 1SS355
D6007 MA153
FL6011 F0316CE
FL6012 F0316CE
DUNTK9769DE24

# ■ POWER and INLET UNIT / NETZ-und EINGANGSEINHEIT

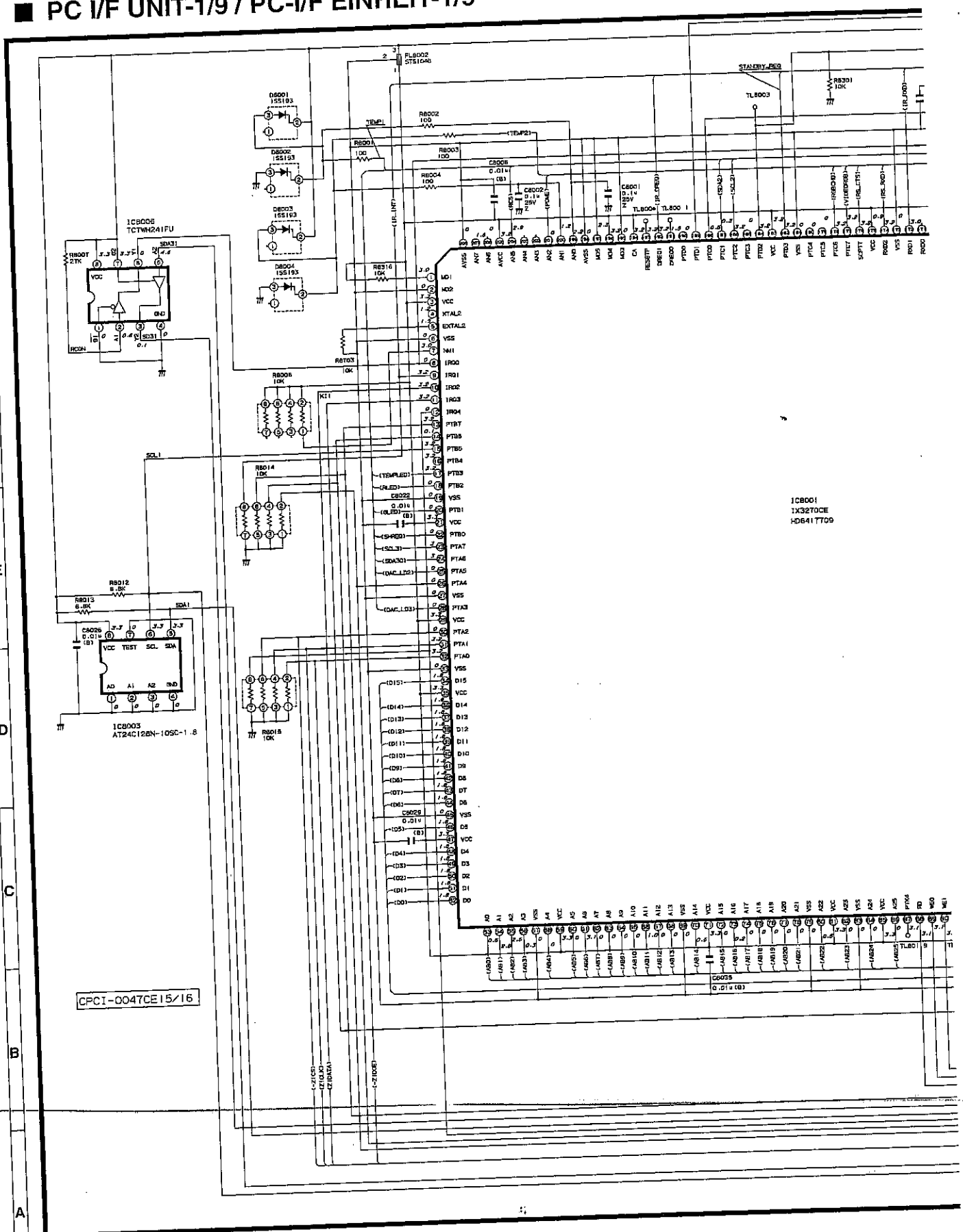


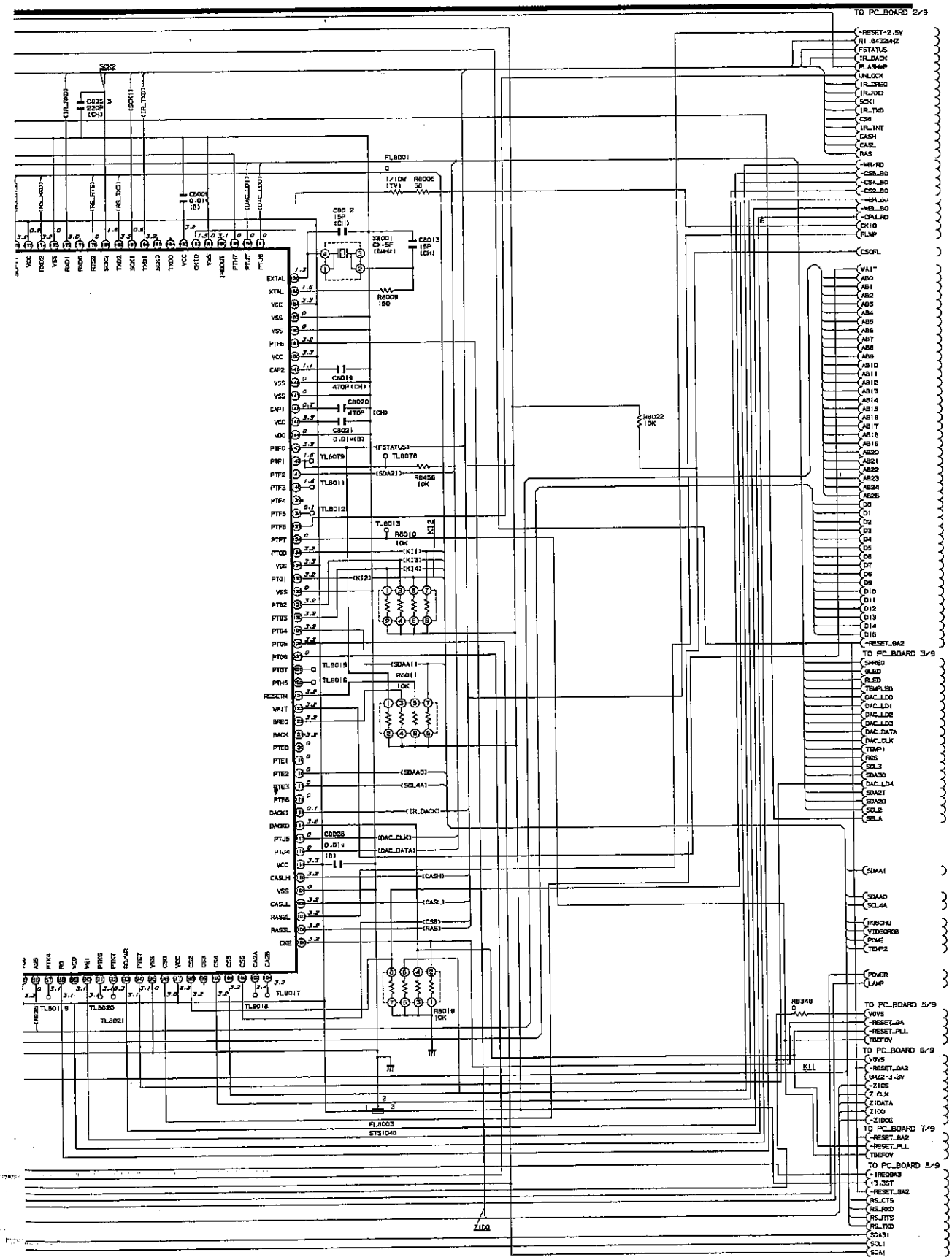






| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

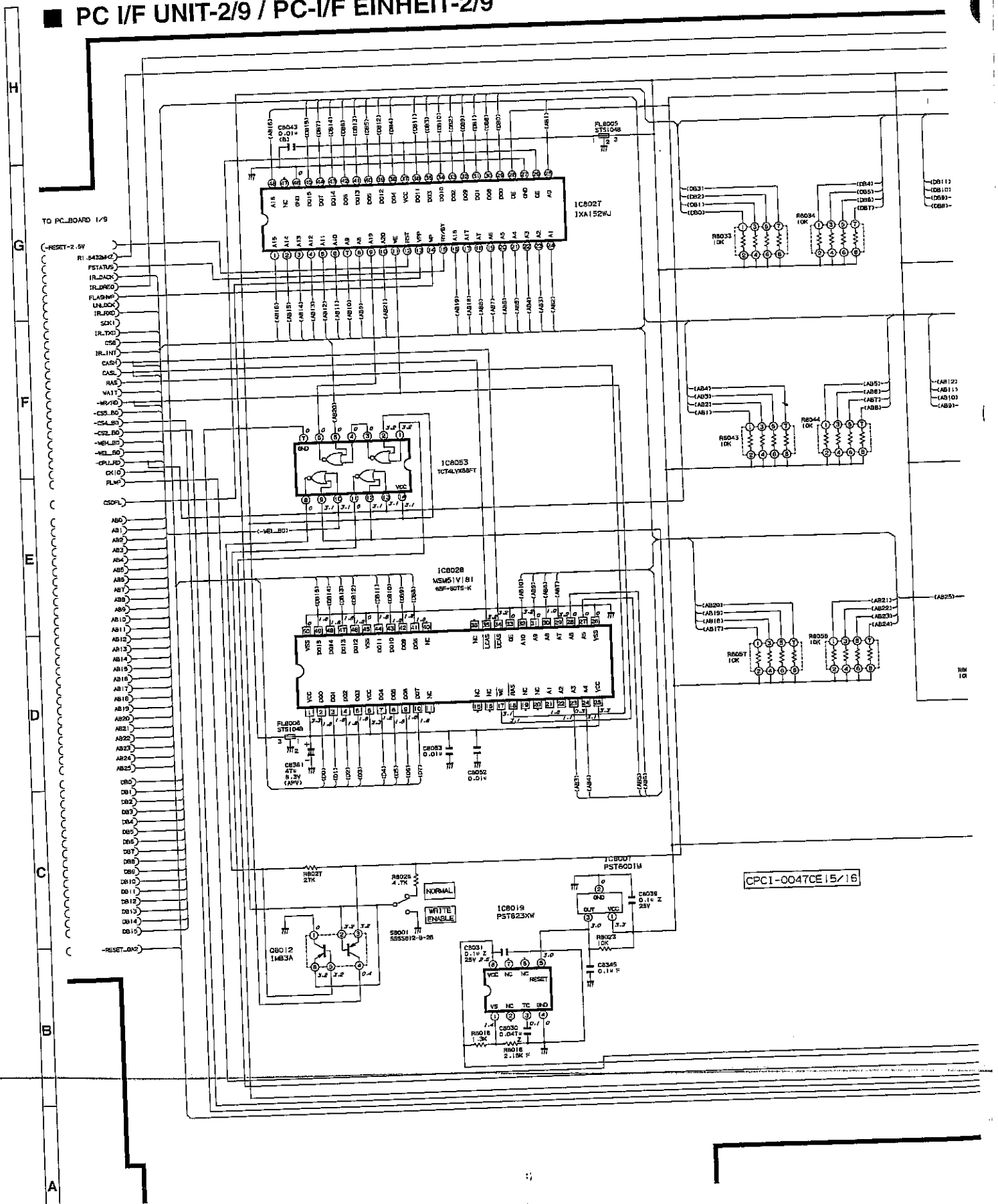
# ■ PC I/F UNIT-1/9 / PC-I/F EINHEIT-1/9

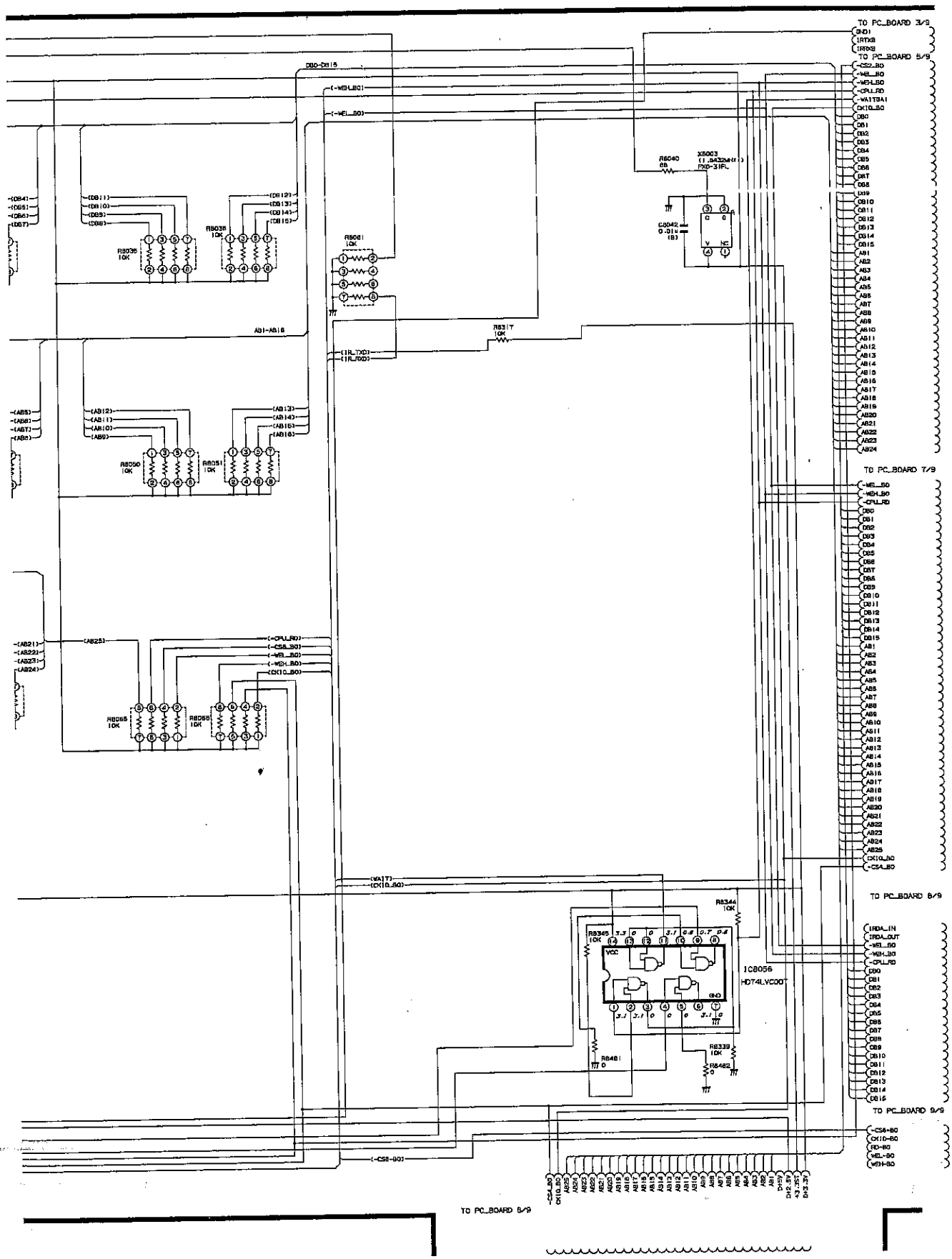




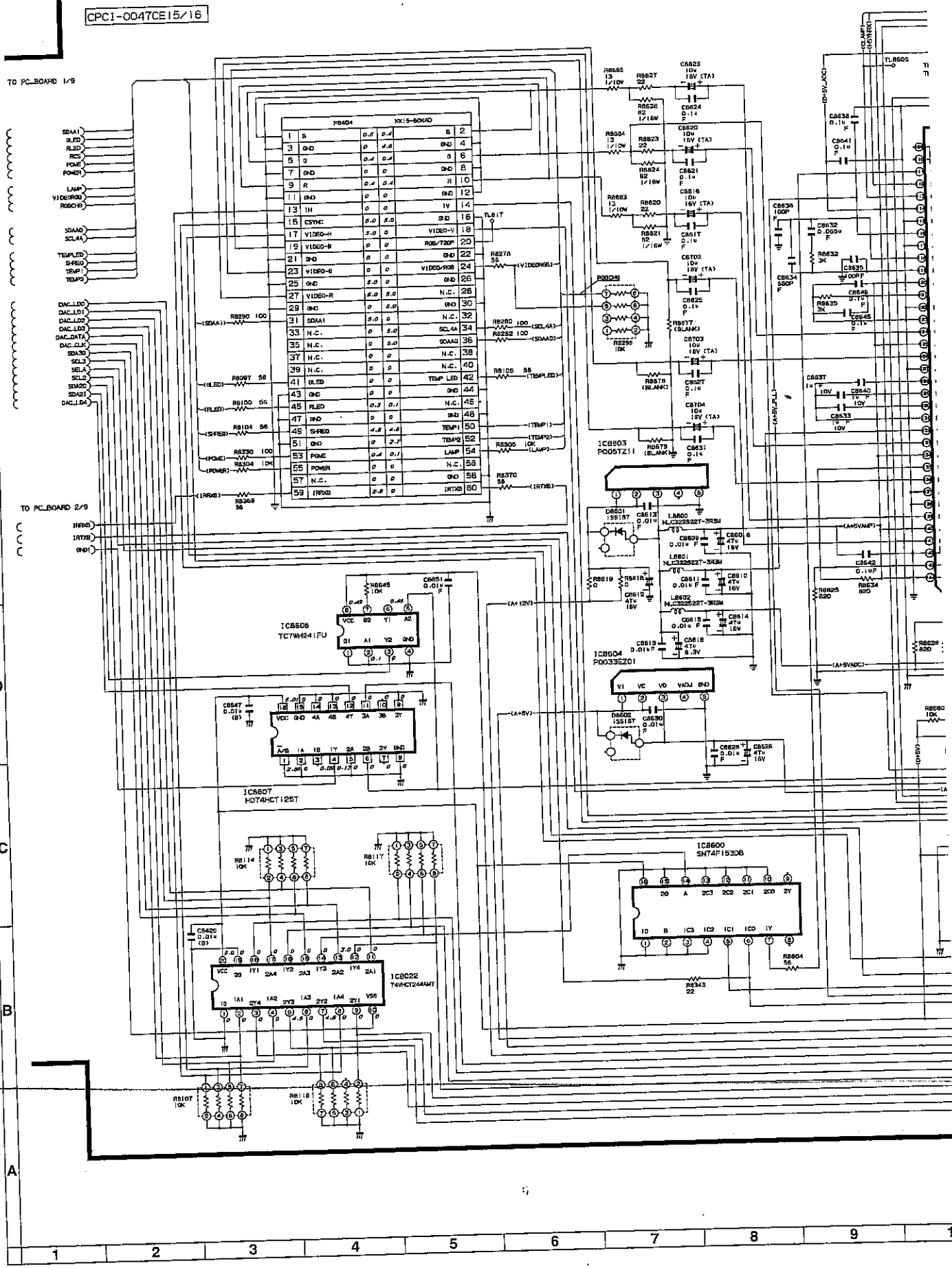

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

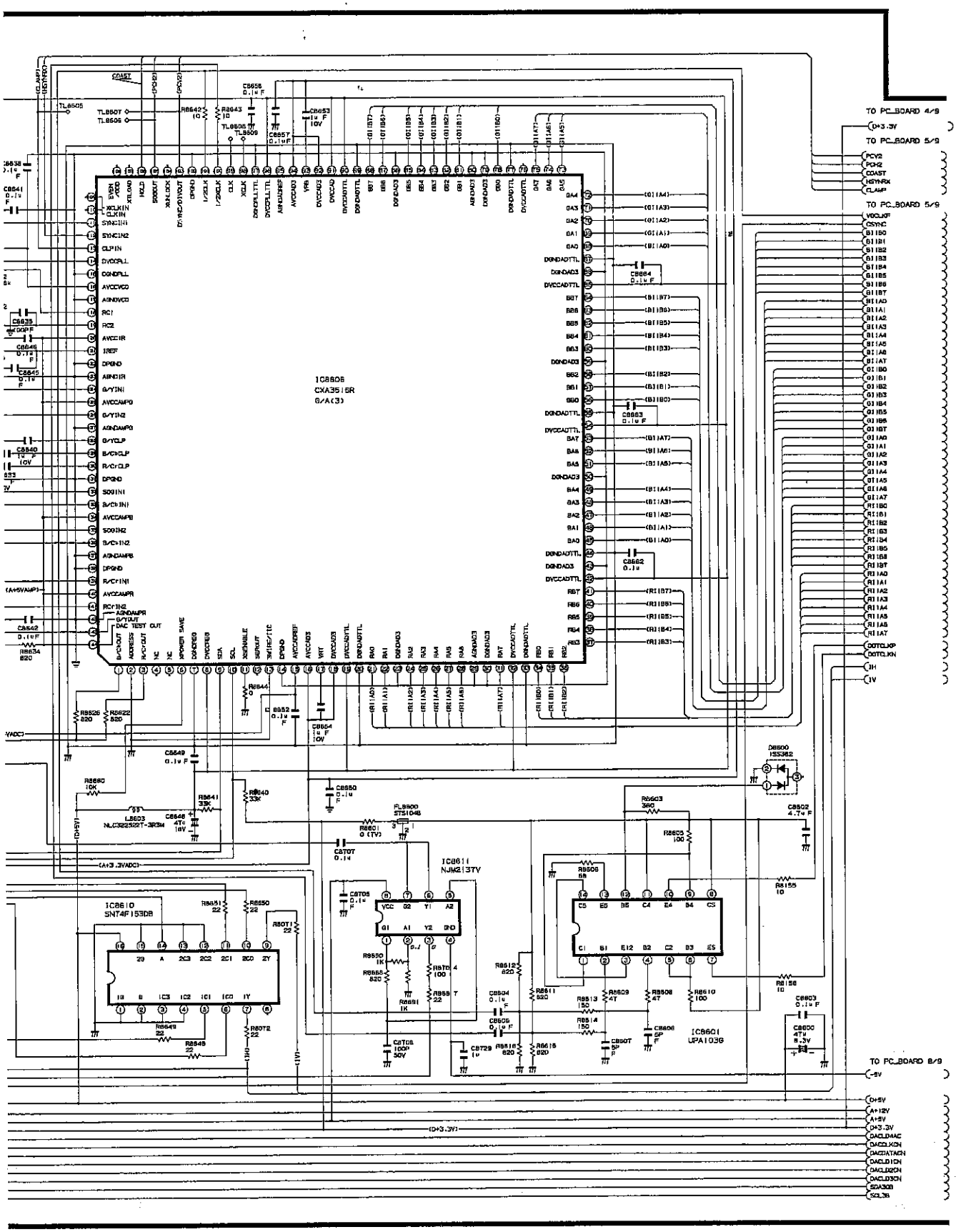
# ■ PC I/F UNIT-2/9 / PC-I/F EINHEIT-2/9




TO PC_BOARD 3/9
TO PC_BOARD 5/9
TO PC_BOARD 7/9
TO PC_BOARD 8/9
TO PC_BOARD 9/9
TO PC_BOARD 8/9
IC8056
HD74LVC00
X5003
R6040
R8344
R8345
R8339
R8481
R8482
R8317
R8061
R8035
R8036
R8050
R8051
R8055
R8056
C8042

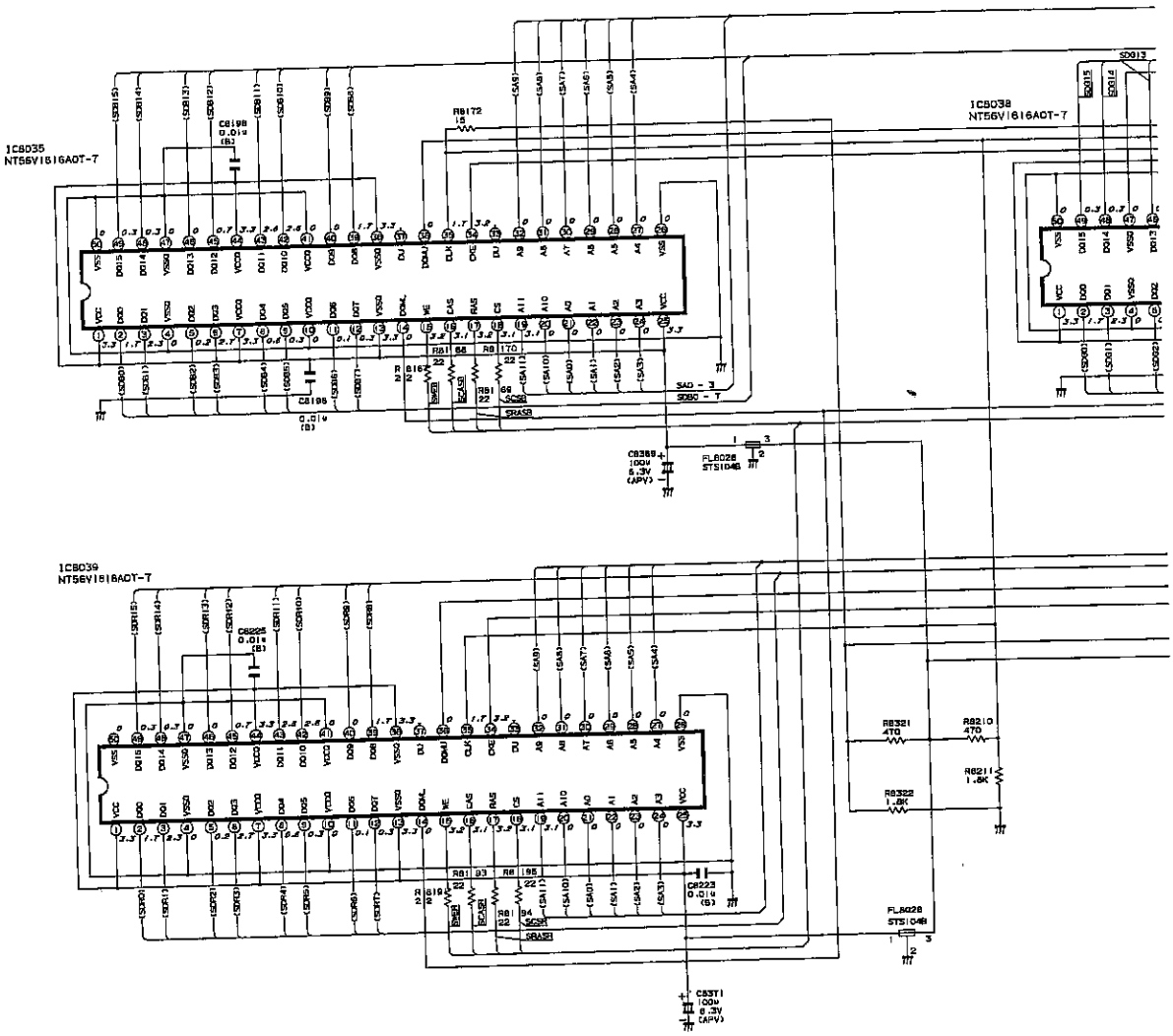
# ■ PC I/F UNIT-3/9 / PC-I/F EINHEIT-3/9

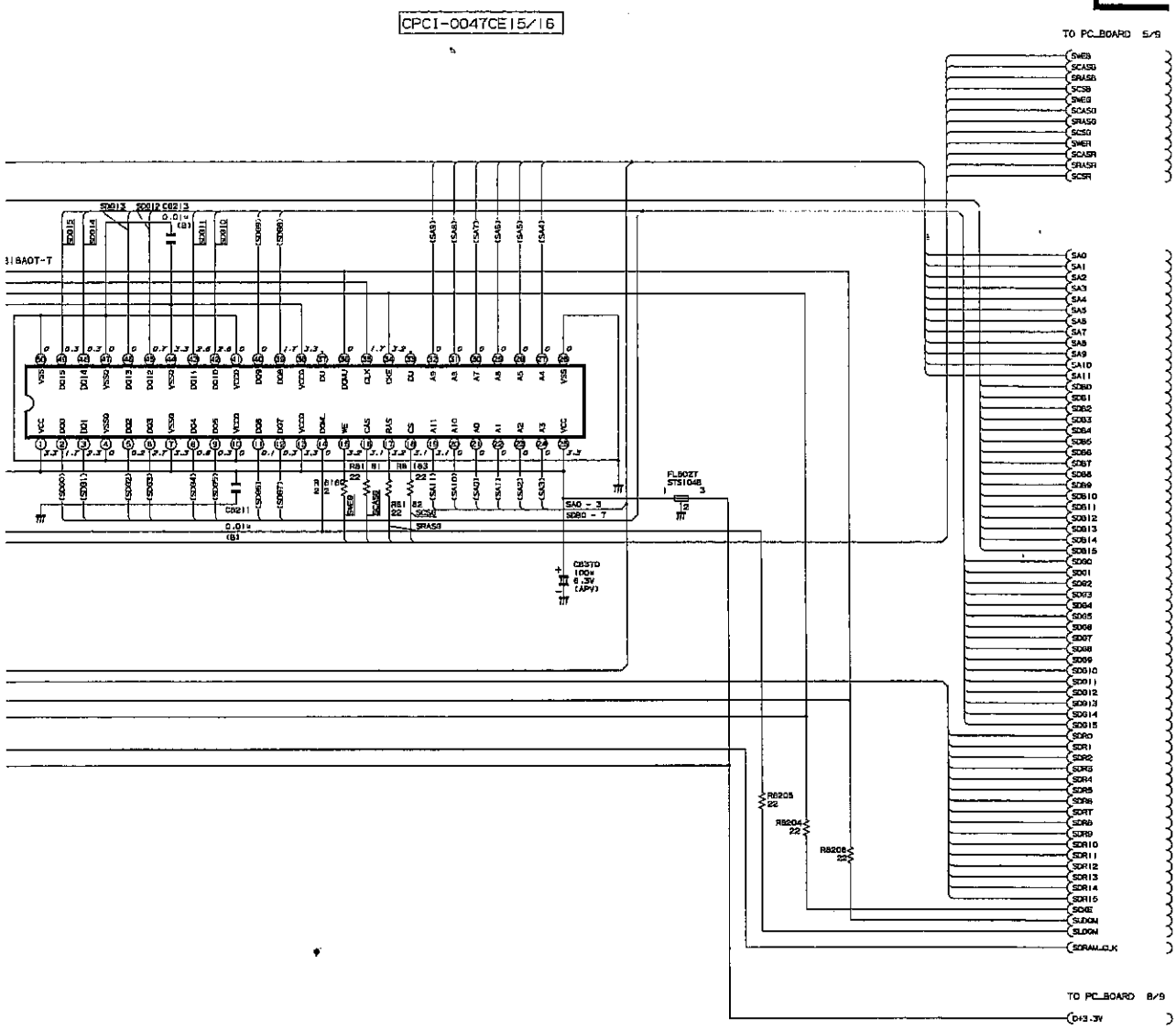




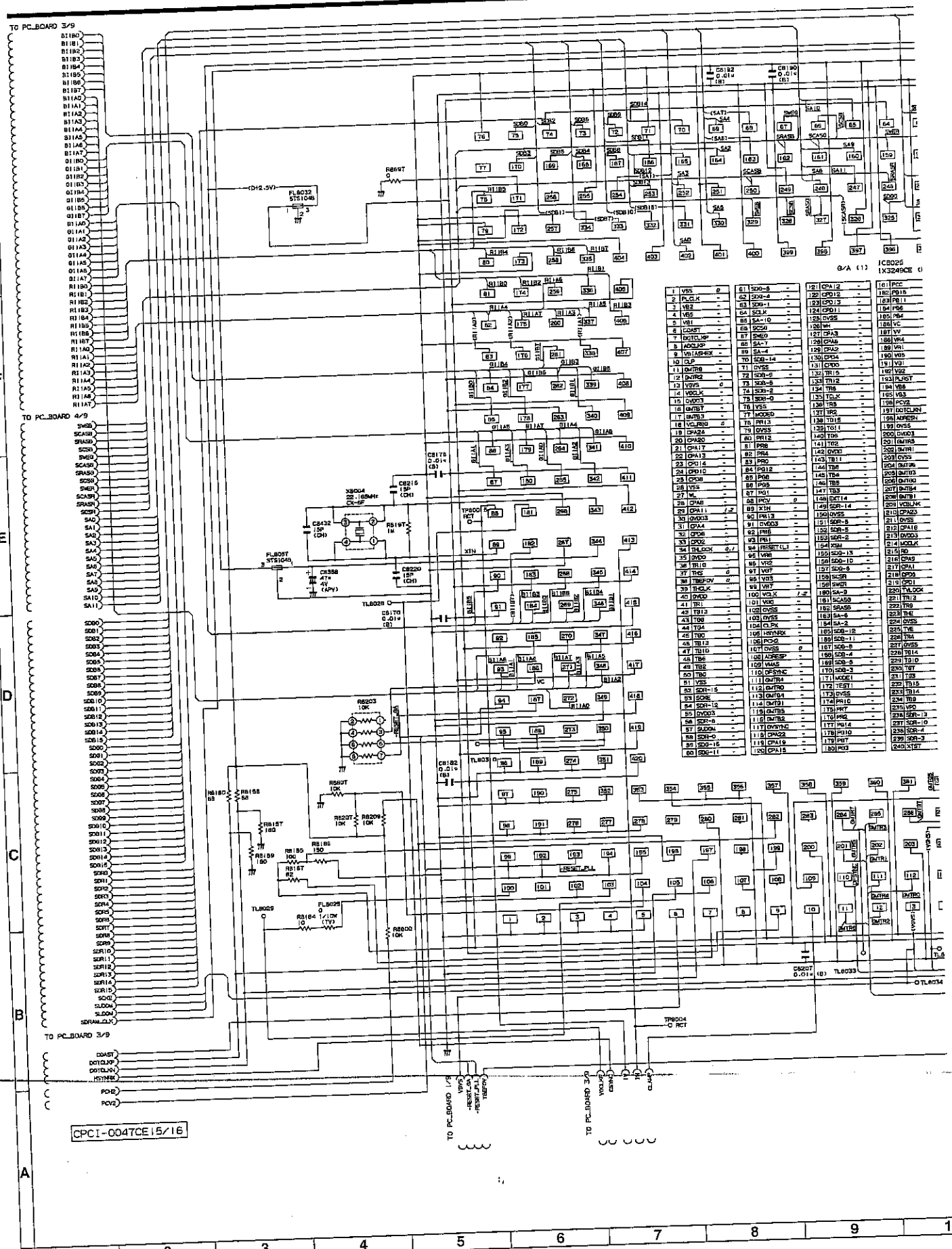

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

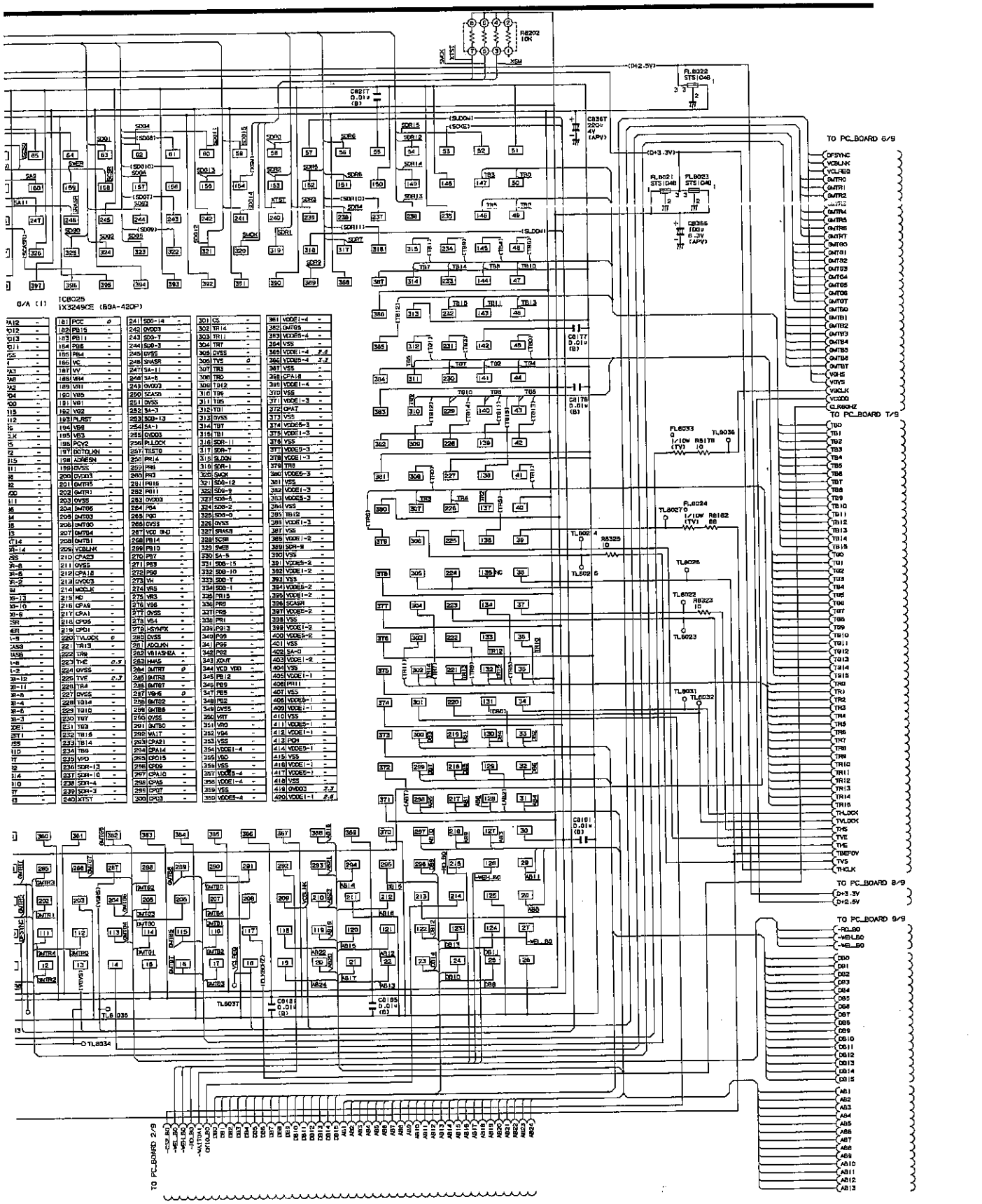
# ■ PC I/F UNIT-4/9 / PC-I/F EINHEIT-4/9



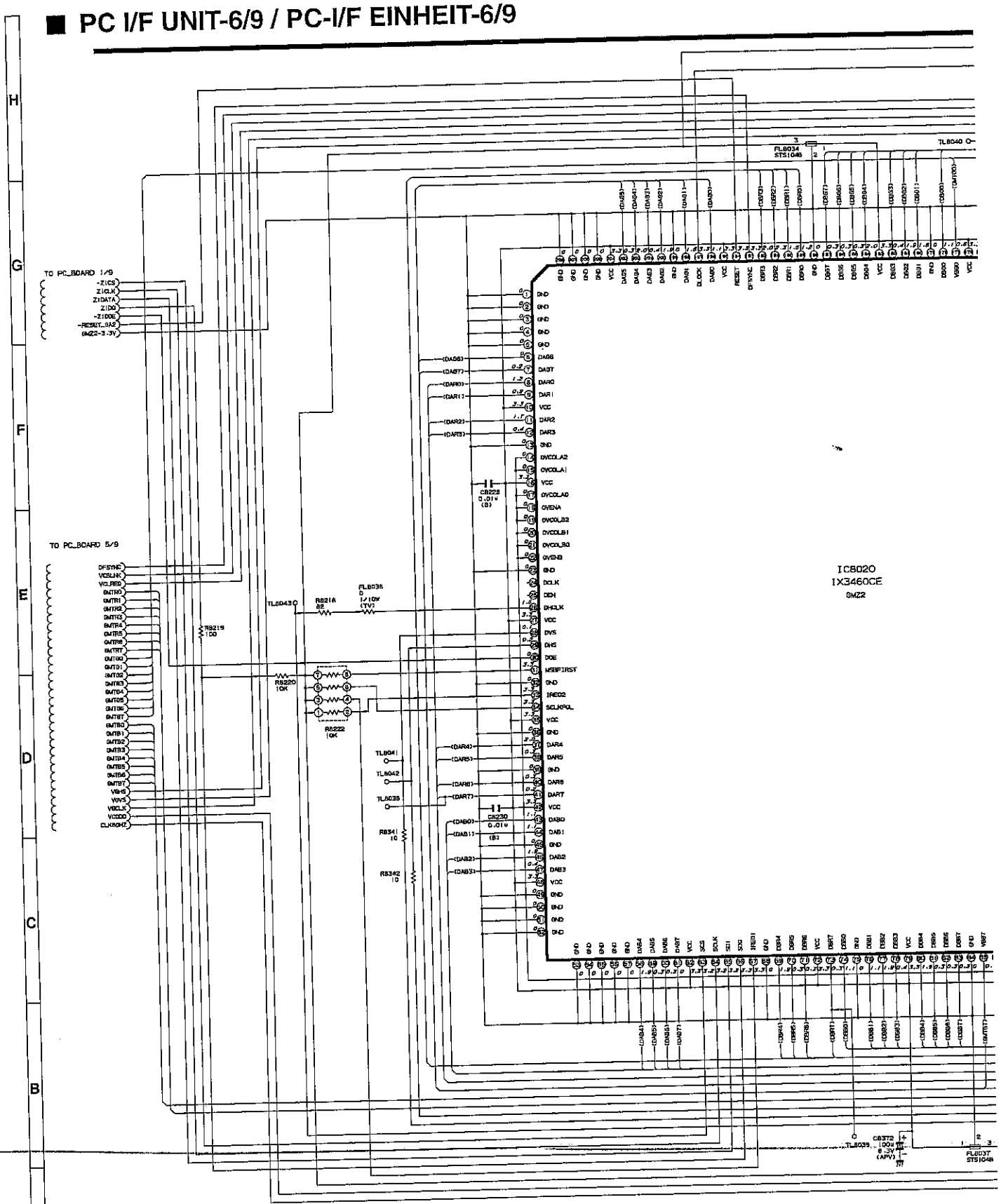

CPC1-0047CE15/16
TO PC_BOARD 5/9
SWE0
SCAS0
SRAS0
SCS0
SWE1
SCAS1
SRAS1
SCS1
SWE2
SCAS2
SRAS2
SCS2
SA0
SA1
SA2
SA3
SA4
SA5
SA6
SA7
SA8
SA9
SA10
SA11
SDB0
SDB1
SDB2
SDB3
SDB4
SDB5
SDB6
SDB7
SDB8
SDB9
SDB10
SDB11
SDB12
SDB13
SDB14
SDB15
SDR0
SDR1
SDR2
SDR3
SDR4
SDR5
SDR6
SDR7
SDR8
SDR9
SDR10
SDR11
SDR12
SDR13
SDR14
SDR15
SDQ2
SUDQM
SLDQM
SDRAM_CLK
TO PC_BOARD 8/9
+3.3V
SA0 - 3
SDB0 - 7
SCS0
SRAS0
R8205
22
R8204
22
R8206
22

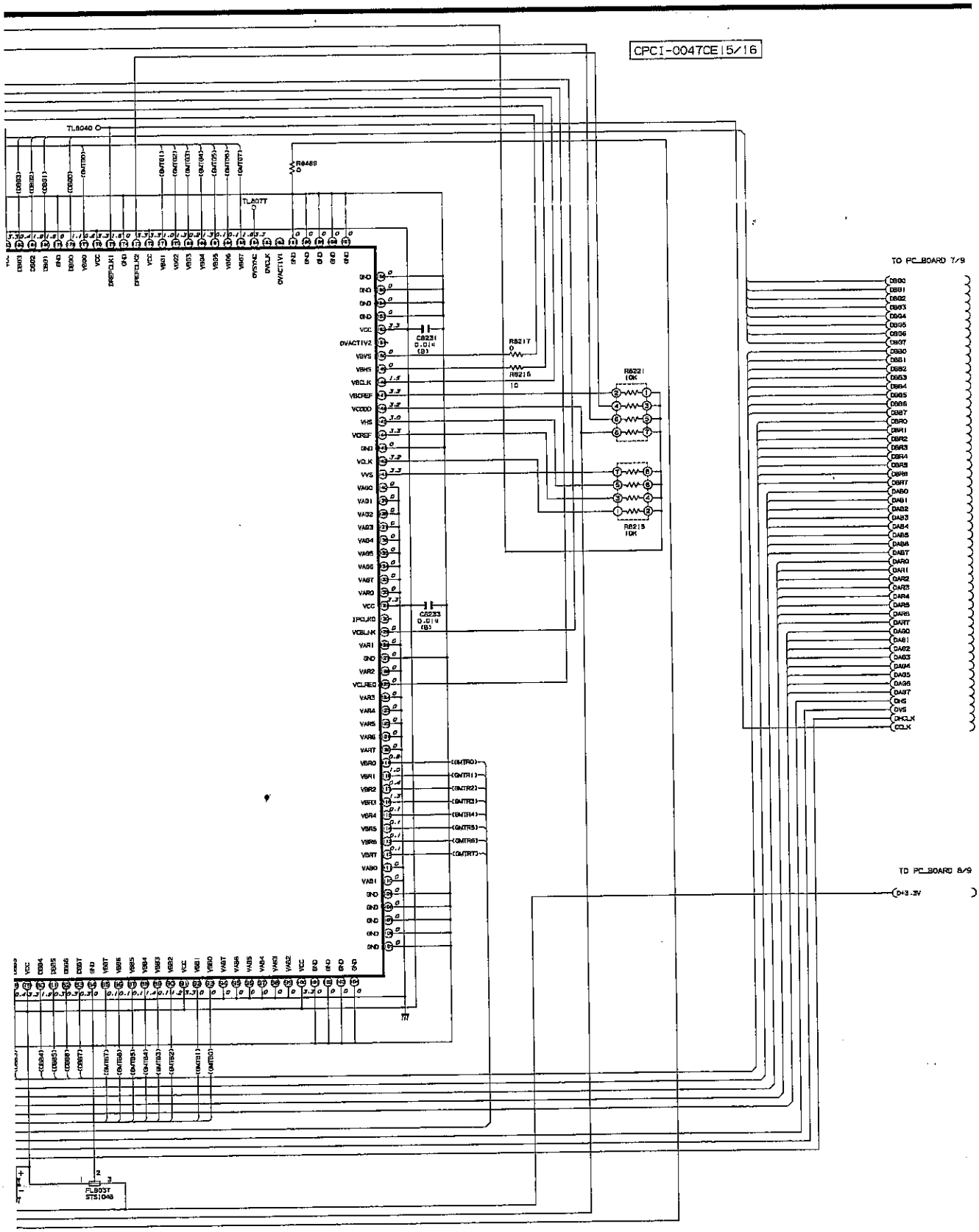
# ■ PC I/F UNIT-5/9 / PC-I/F EINHEIT-5/9



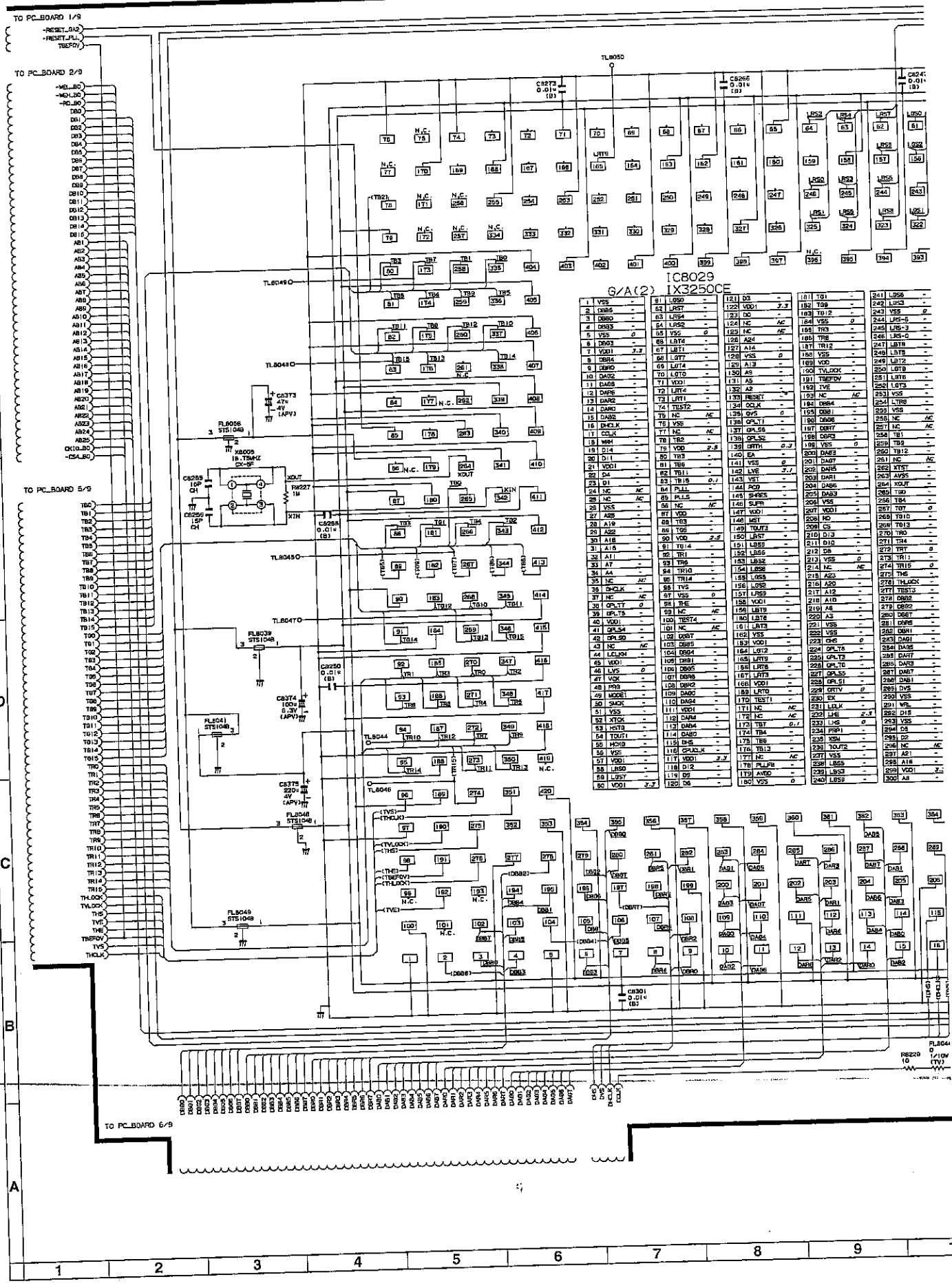

TO PC_BOARD 6/9
TO PC_BOARD 7/9
TO PC_BOARD 8/9
TO PC_BOARD 9/9
TO PC_BOARD 2/9
IC8025
1X3249CE (89A-420P)

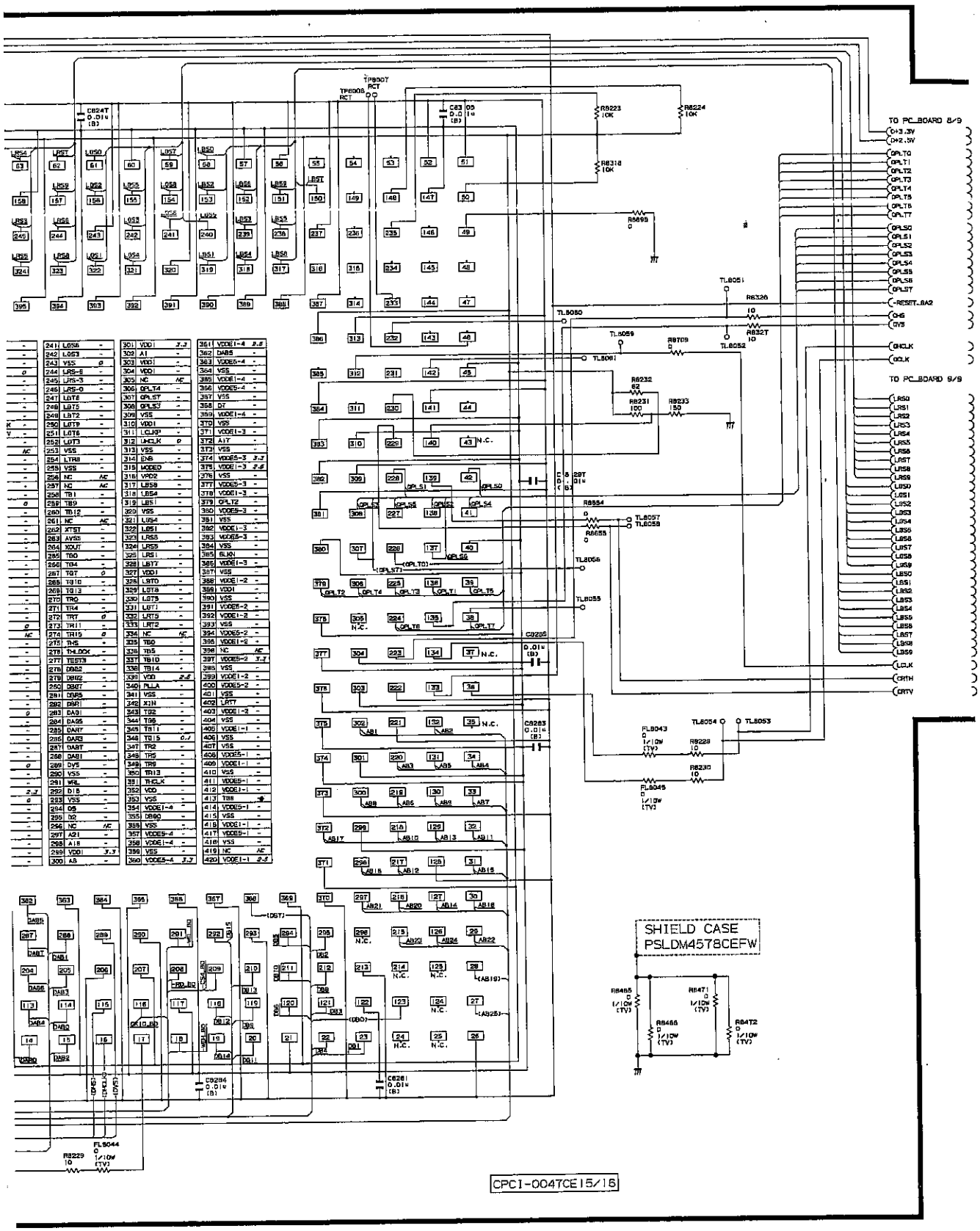
# ■ PC I/F UNIT-6/9 / PC-I/F EINHEIT-6/9



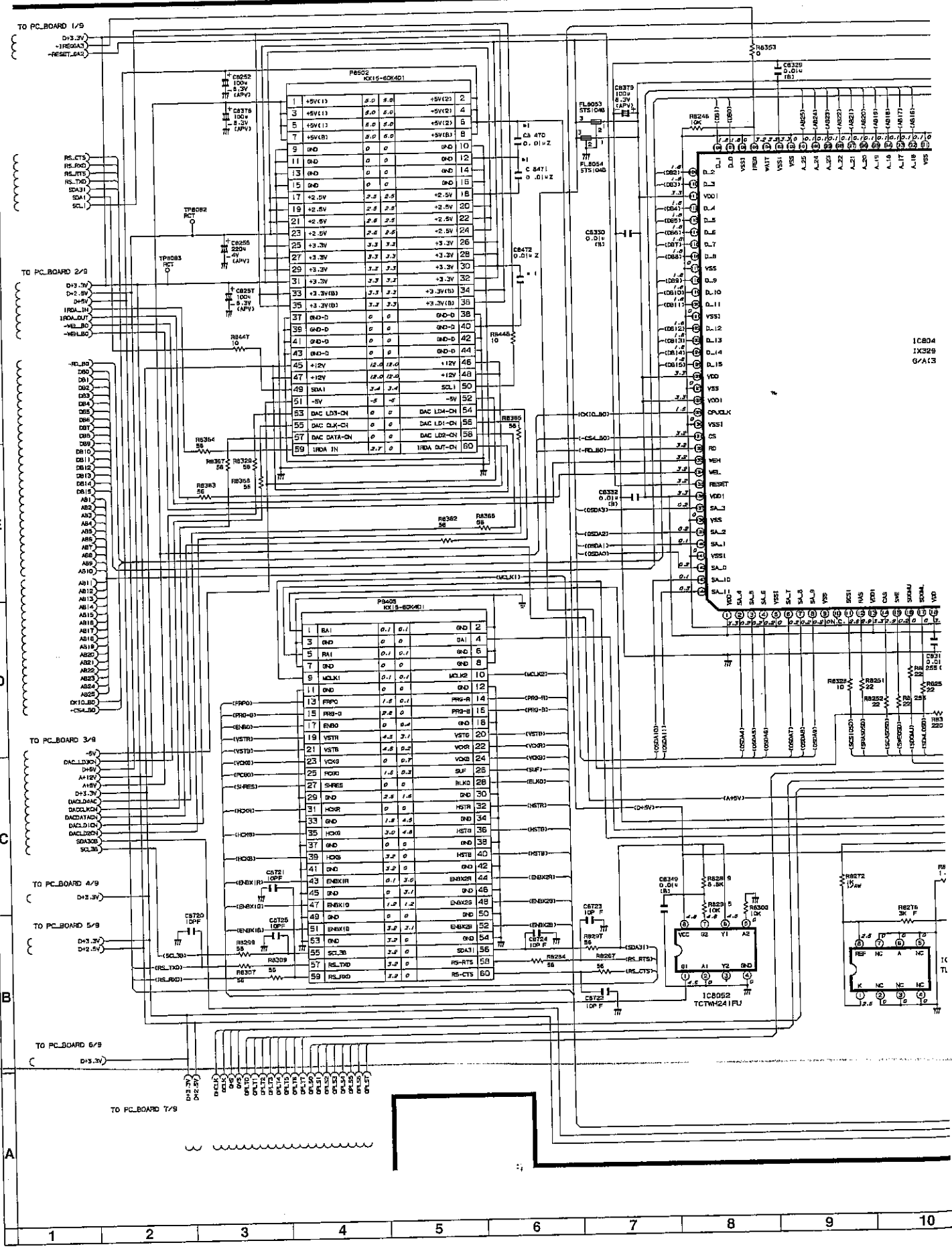

CPCI-0047CE|5/16
TO PC_BOARD 7/9
TO PC_BOARD 8/9

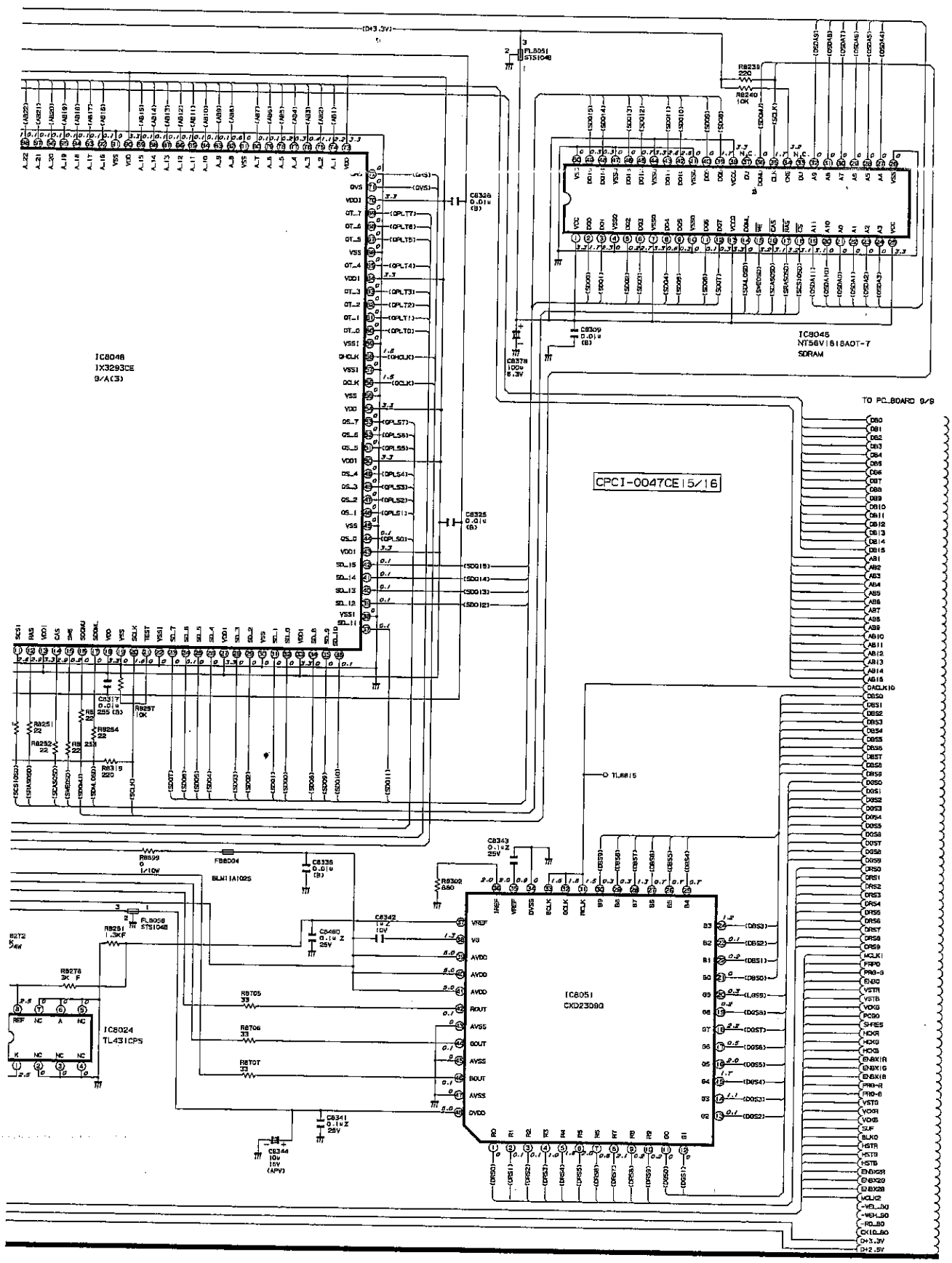
# ■ PC I/F UNIT-7/9 / PC-I/F EINHEIT-7/9



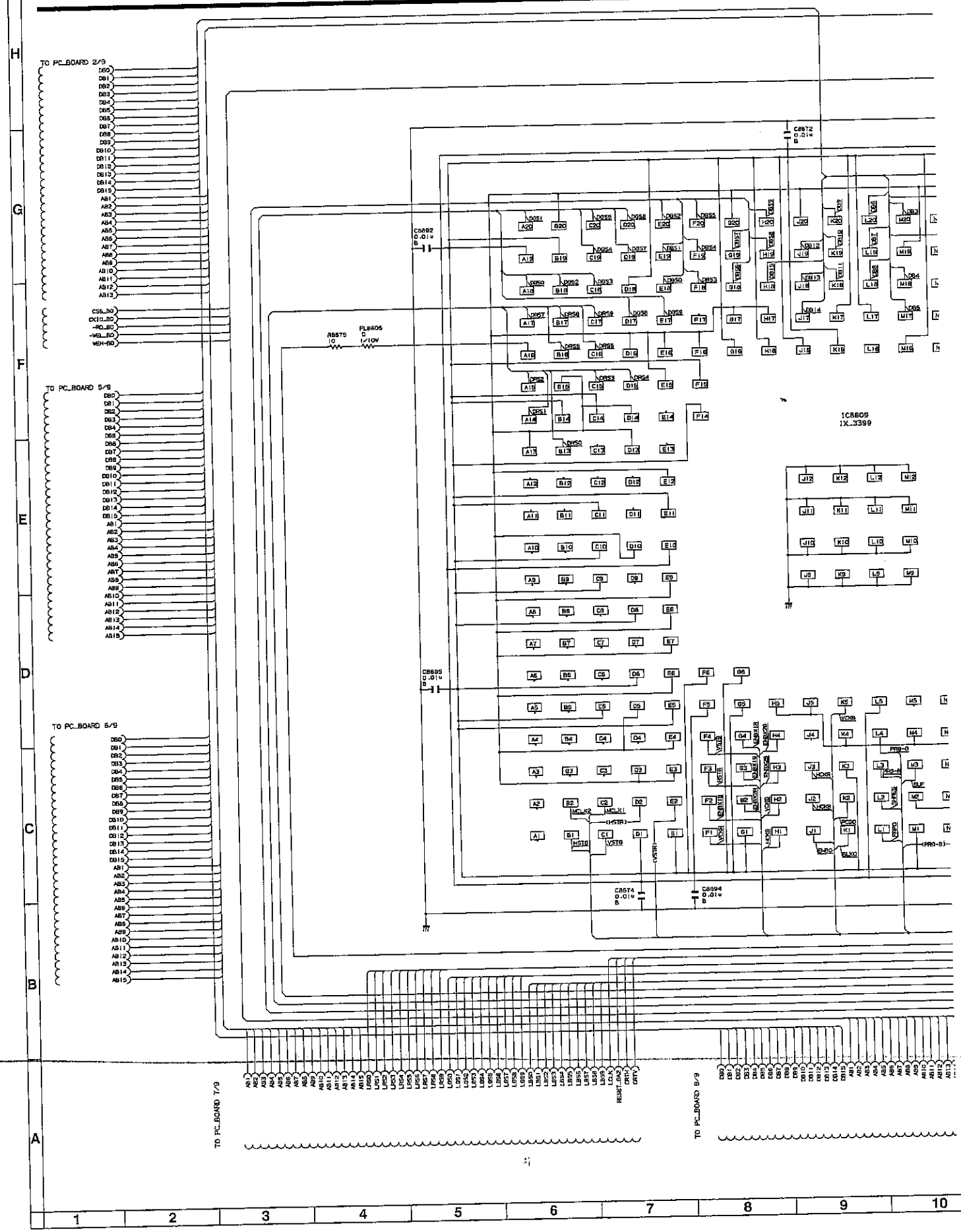

TO PC_BOARD 8/9
TO PC_BOARD 9/9
SHIELD CASE
PSLDM4578CEFW
CPC1-0047CE15/16

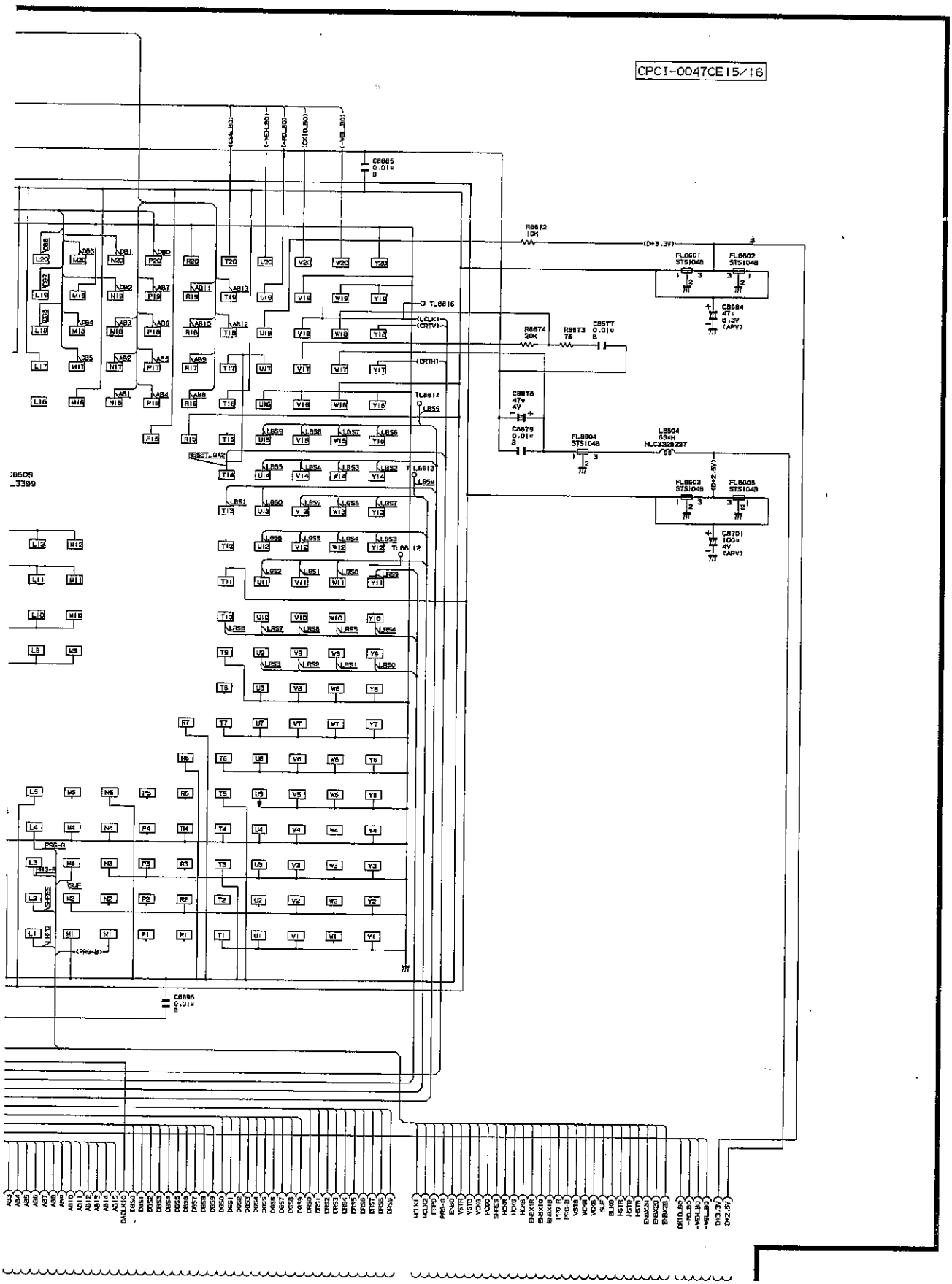
# ■ PC I/F UNIT-8/9 / PC-I/F EINHEIT-8/9




IC8048
IX3293CE
9/A(3)
IC8045
NT56V1618AOT-7
SDRAM
IC8051
CXD2309Q
IC8024
TL431CPS
CPCI-0047CE15/16
TO PC_BOARD 9/9

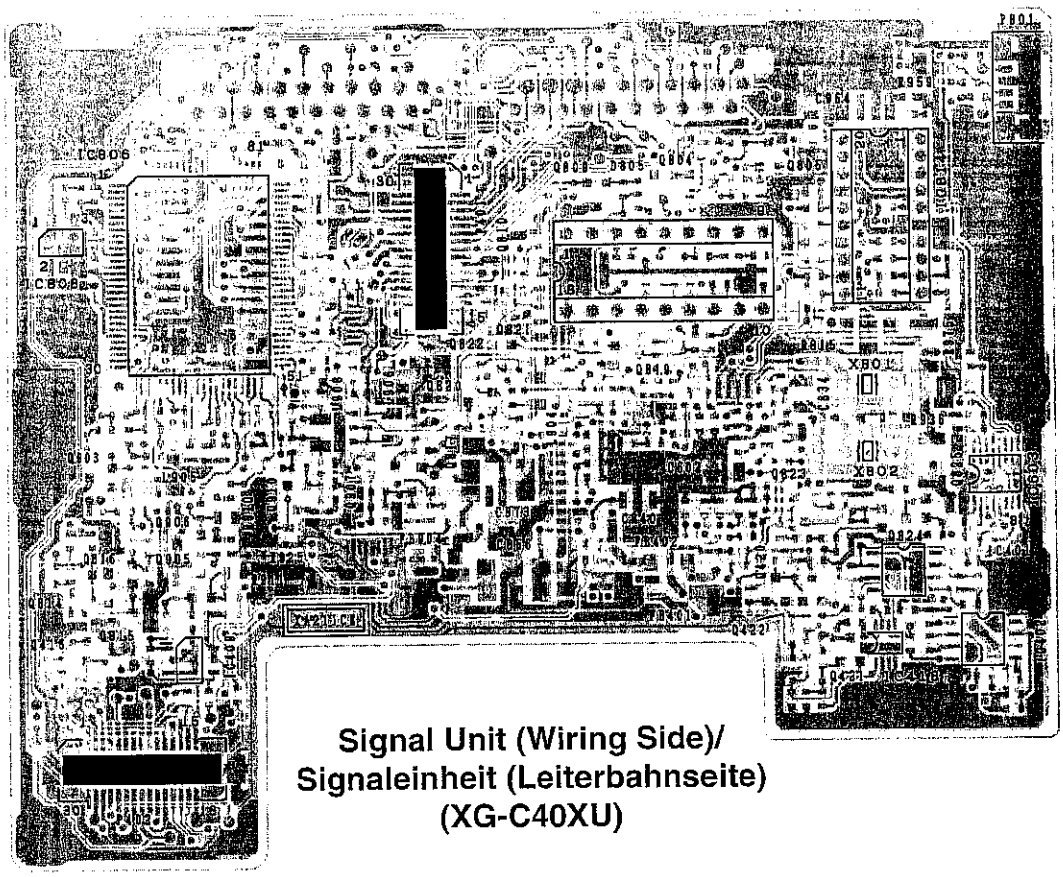
# ■ PC I/F UNIT-9/9 / PC-I/F EINHEIT-9/9



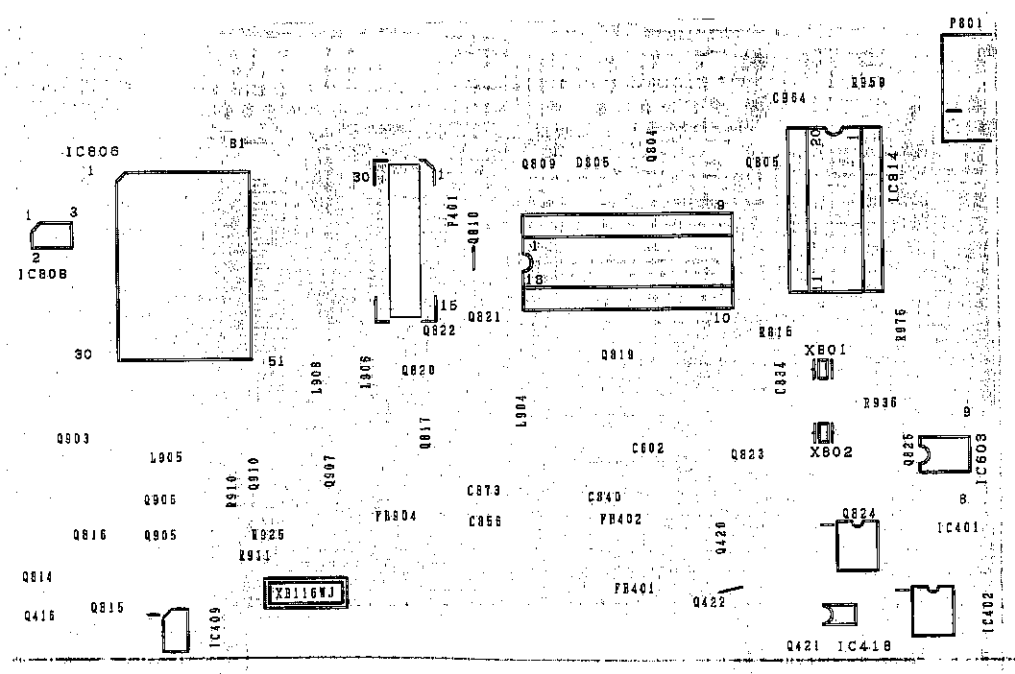


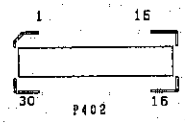

| 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|

# PRINTED WIRING BOARD ASSEMBLIES/ LEITERPLATTENEINHEITEN

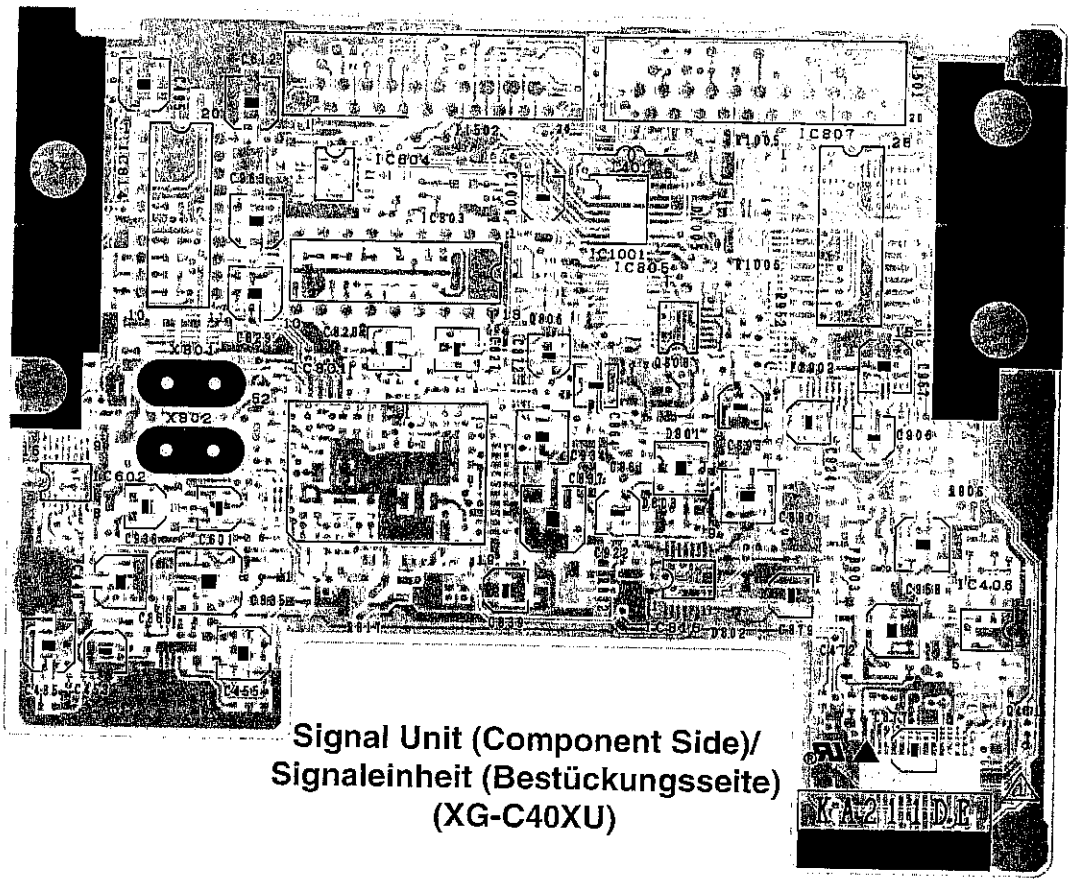


Signal Unit (Wiring Side)/
Signaleinheit (Leiterbahnseite)
(XG-C40XU)

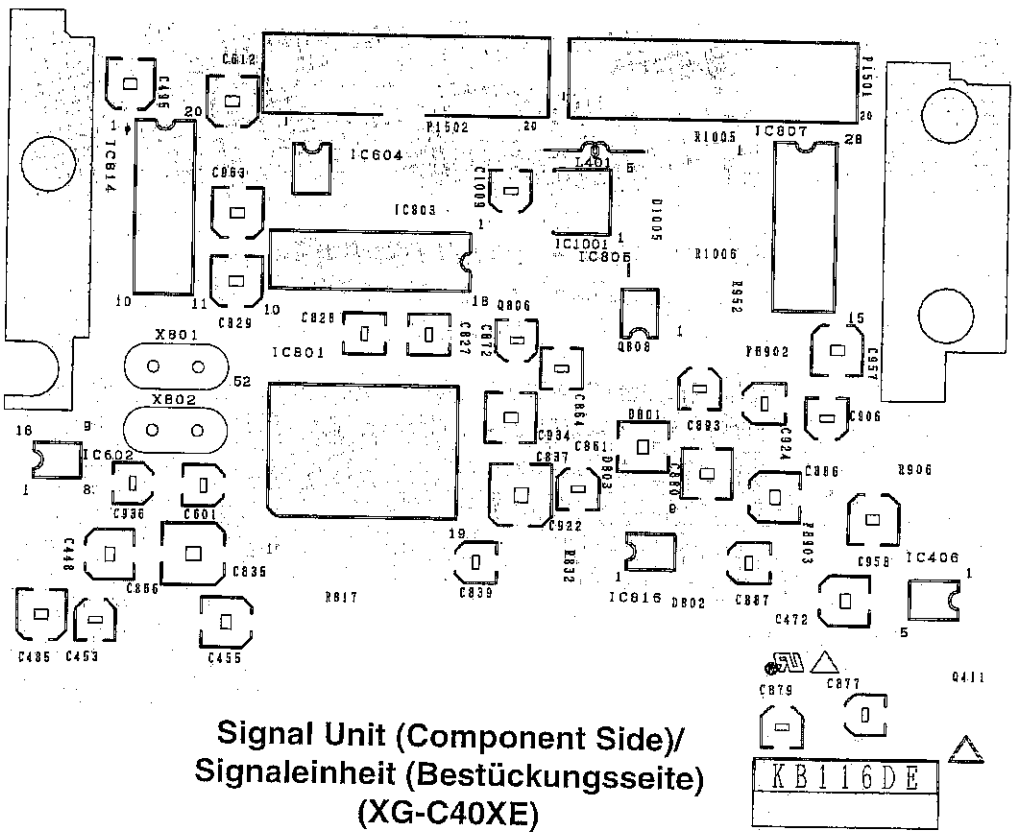




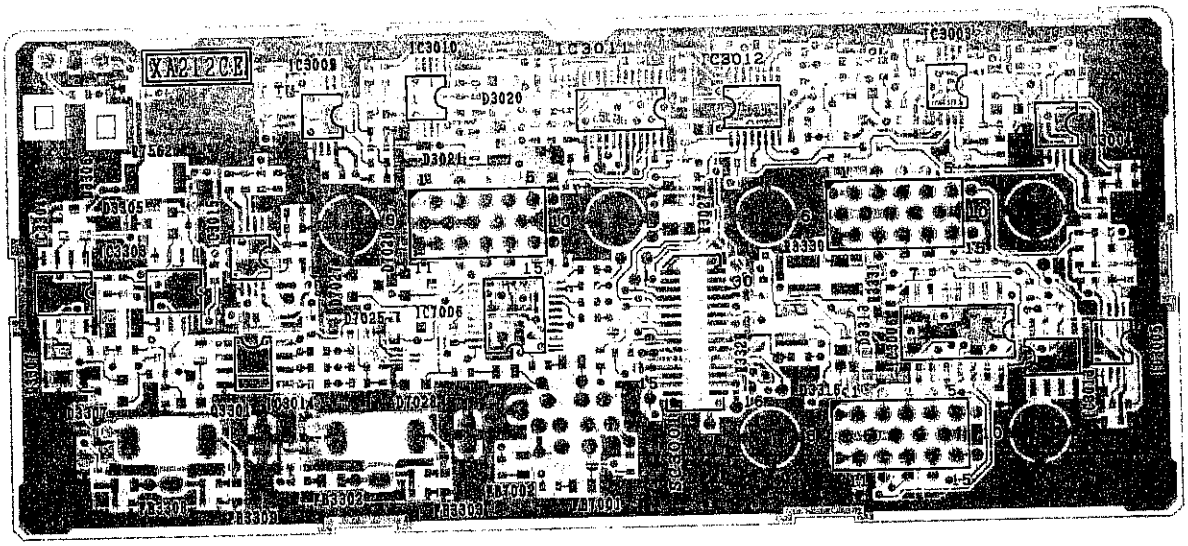
Signal Unit (Wiring Side)/
Signaleinheit (Leiterbahnseite)
(XG-C40XE)



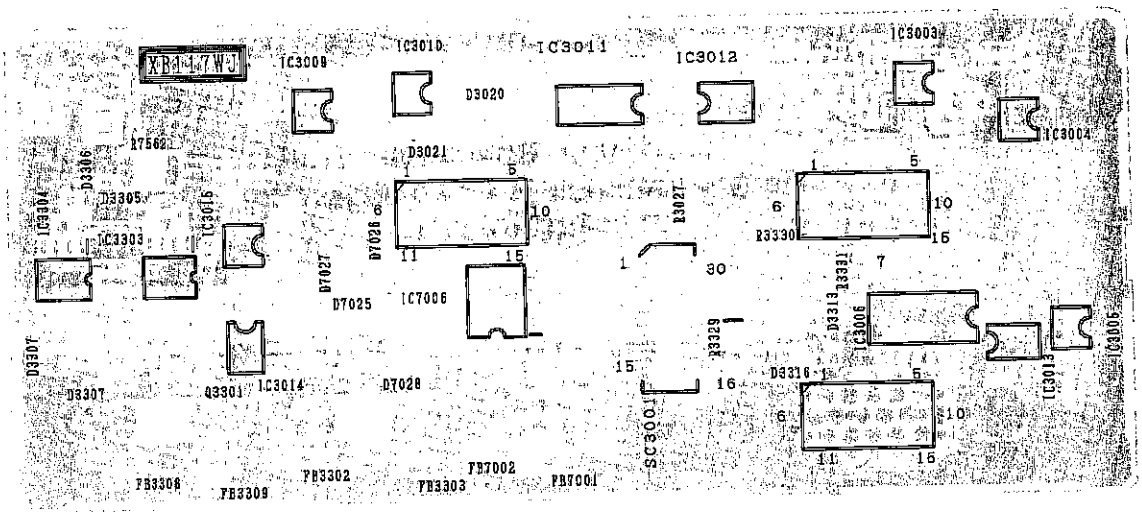

**Signal Unit (Component Side)/**
**Signaleinheit (Bestückungsseite)**
**(XG-C40XU)**



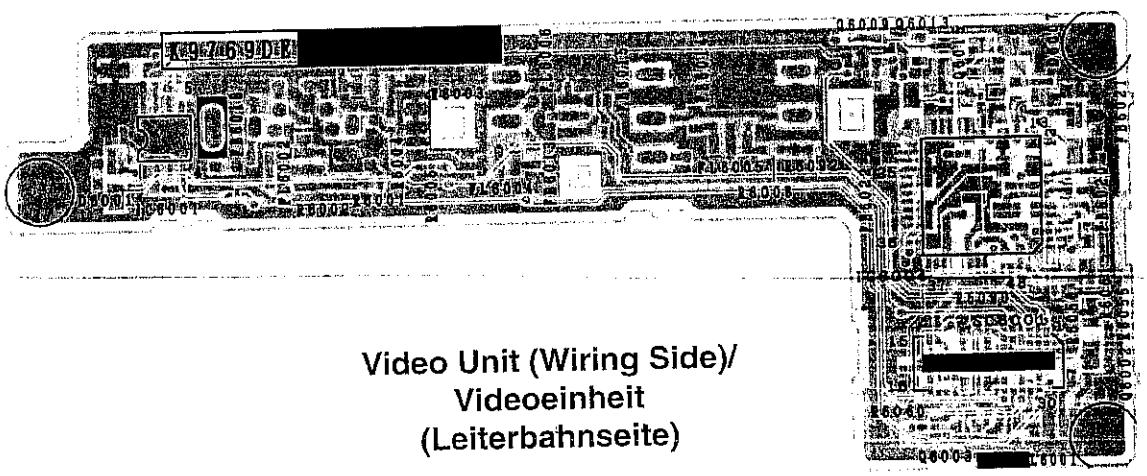

**Signal Unit (Component Side)/**
**Signaleinheit (Bestückungsseite)**
**(XG-C40XE)**



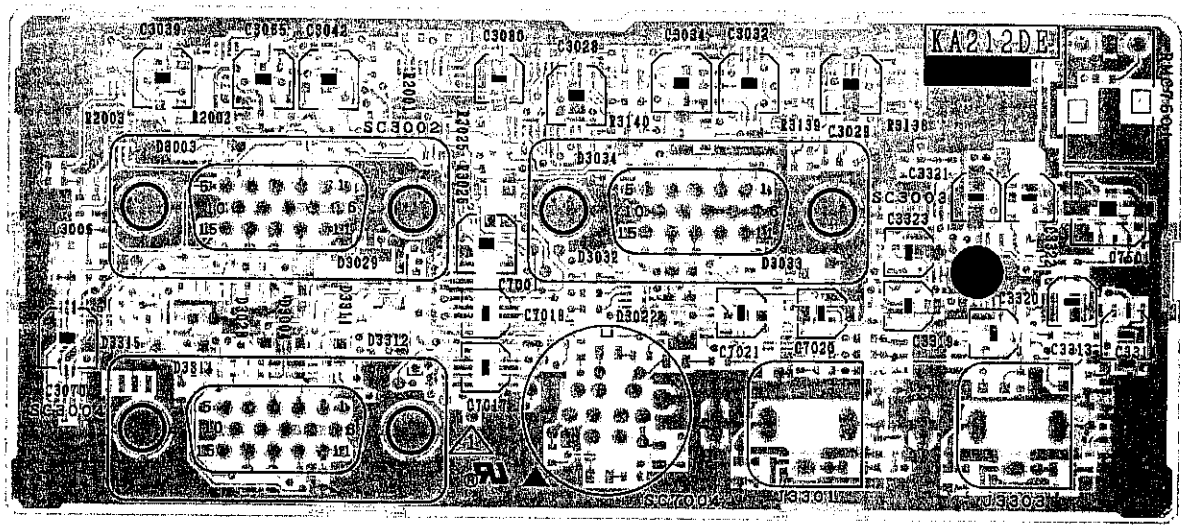
PC Terminal Unit (Wiring Side)/
PC-Anschlußeinheit (Leiterbahnseite)
(XG-C40XU)



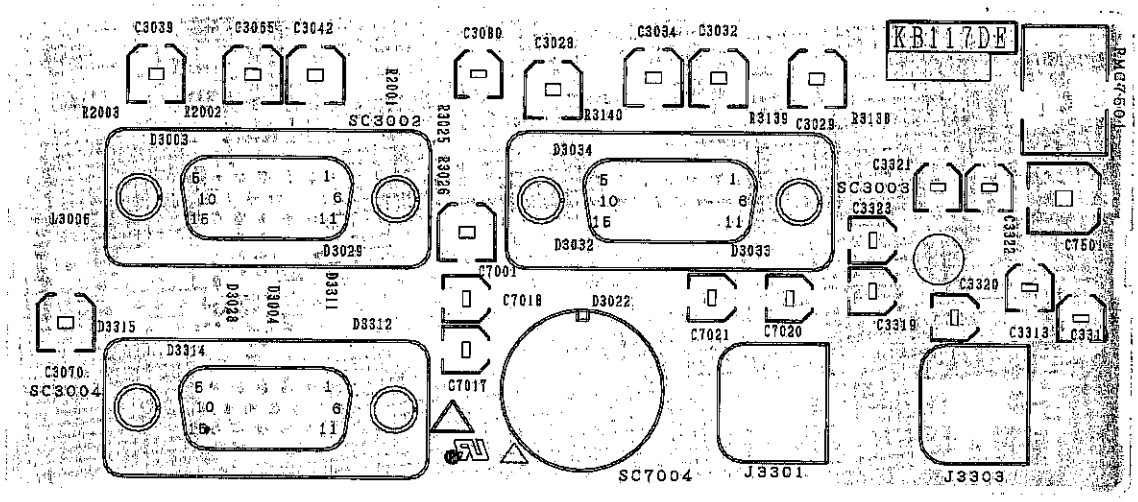
PC Terminal Unit (Wiring Side)/
PC-Anschlußeinheit (Leiterbahnseite)
(XG-C40XE)



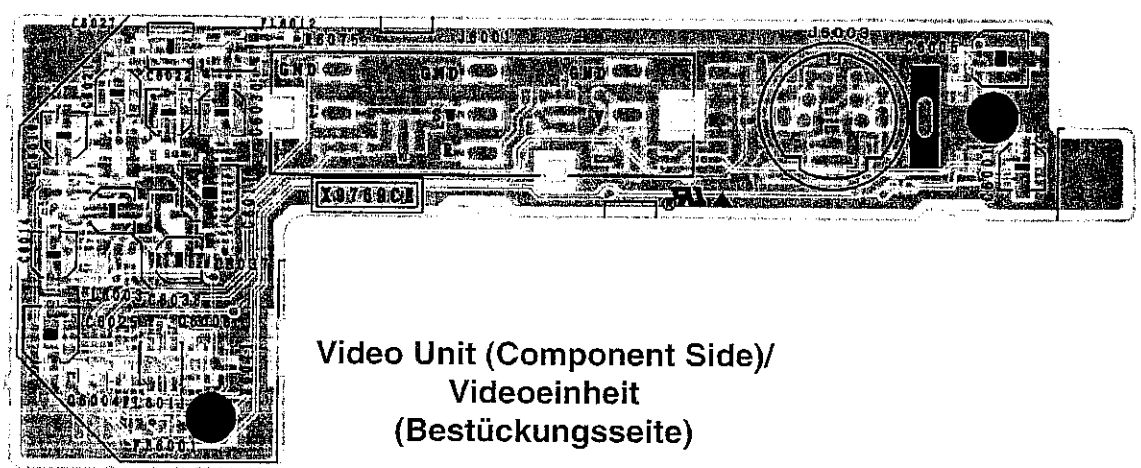
Video Unit (Wiring Side)/
Videoeinheit
(Leiterbahnseite)



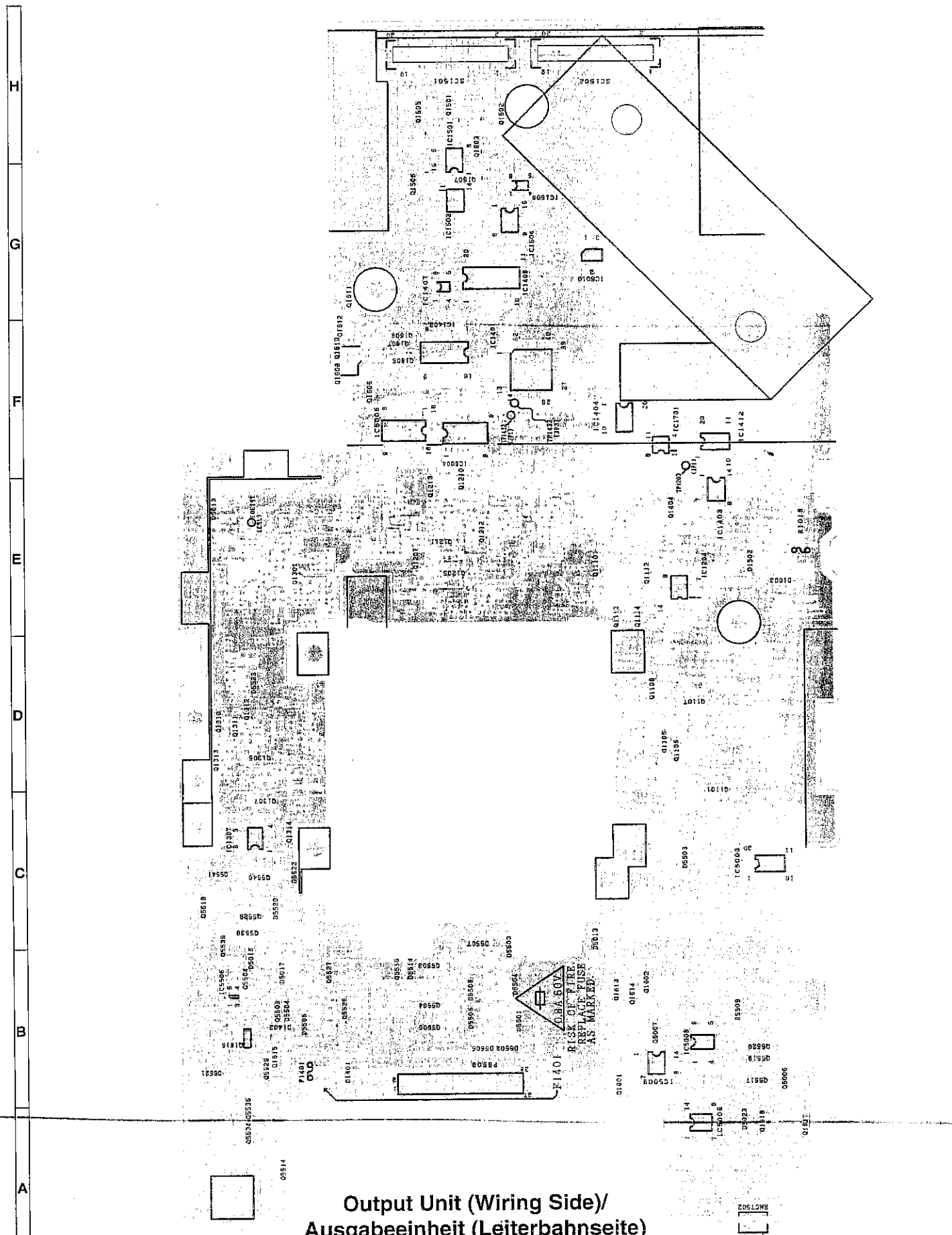

PC Terminal Unit (Component Side)/
PC-Anschlußeinheit (Bestückungsseite)
(XG-C40XU)



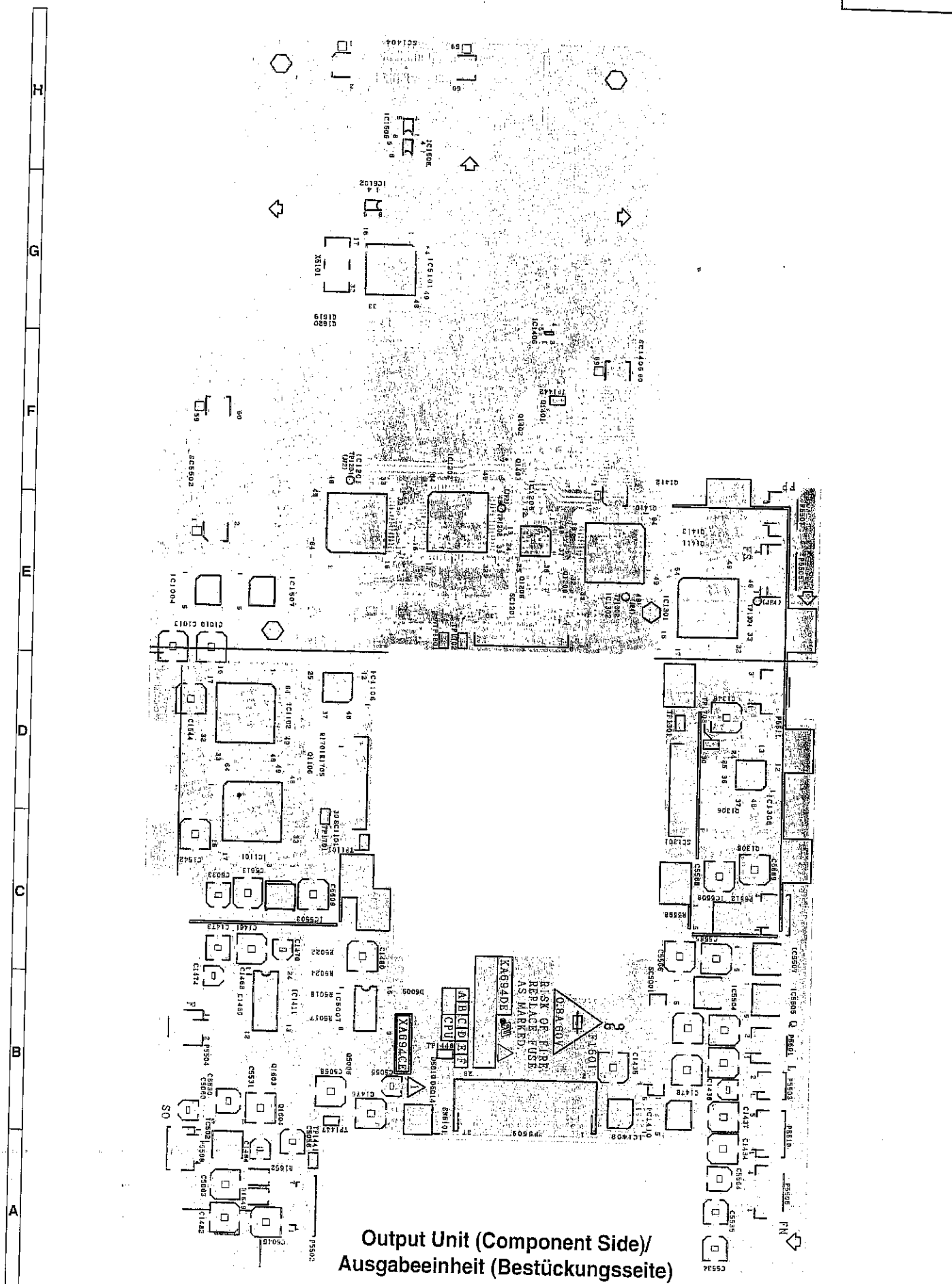

PC Terminal Unit (Component Side)/
PC-Anschlußeinheit (Bestückungsseite)
(XG-C40XE)



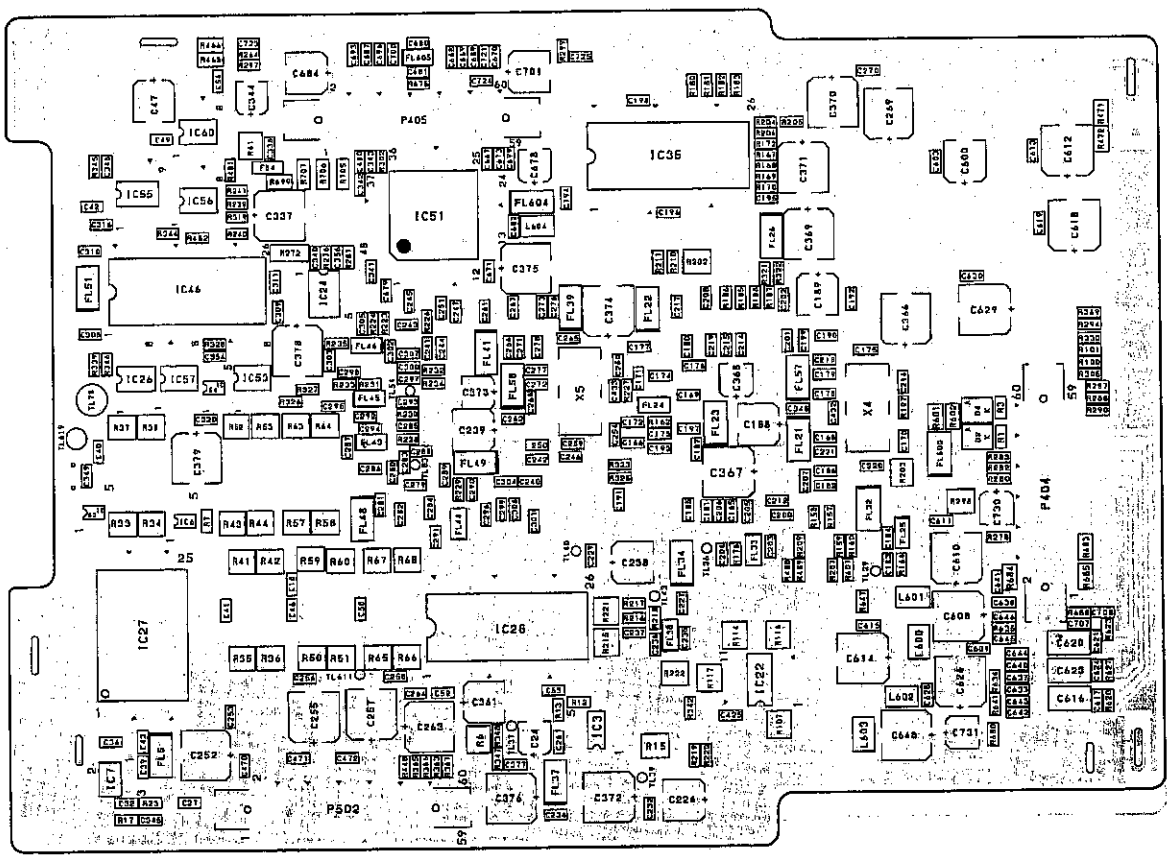
Video Unit (Component Side)/
Videoeinheit
(Bestückungsseite)



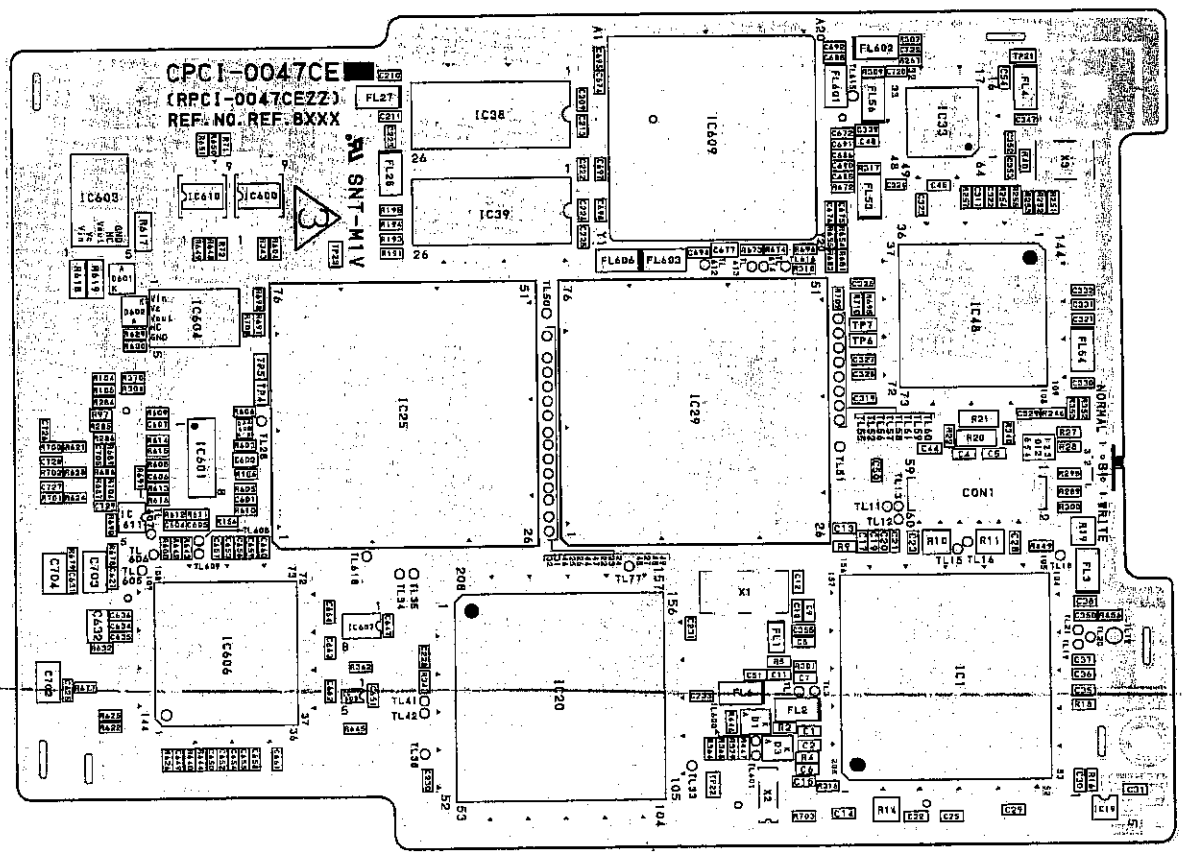

**Output Unit (Wiring Side)/**
**Ausgabeeinheit (Leiterbahnseite)**



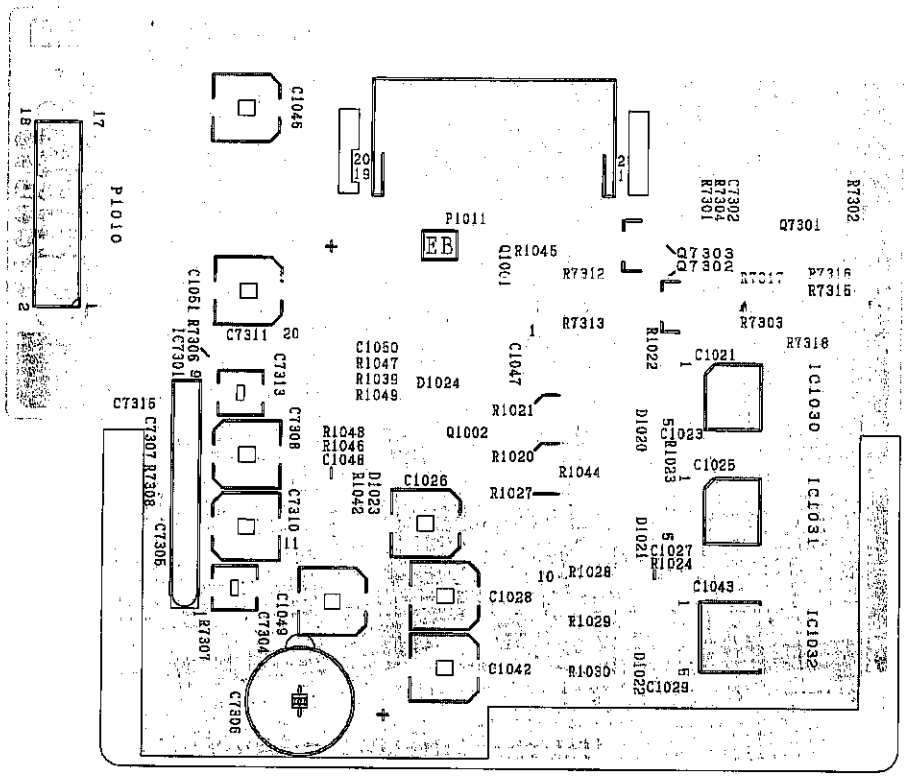

Output Unit (Component Side)/
Ausgabeeinheit (Bestückungsseite)



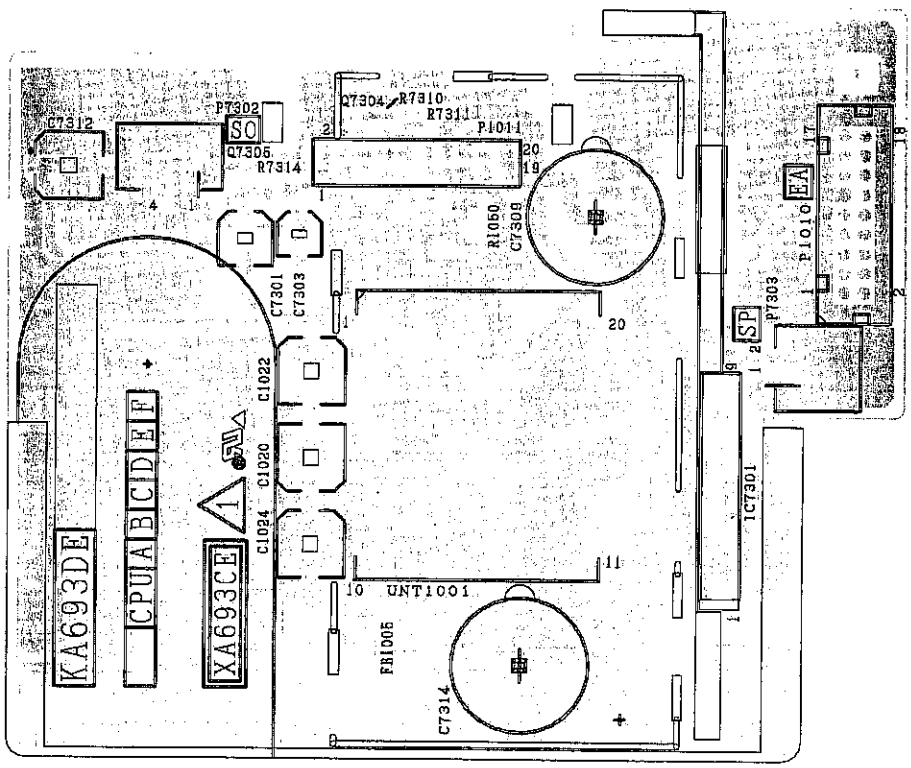
PC I/F Unit (Wiring Side)/
PC-I/F-Einheit (Leiterbahnseite)



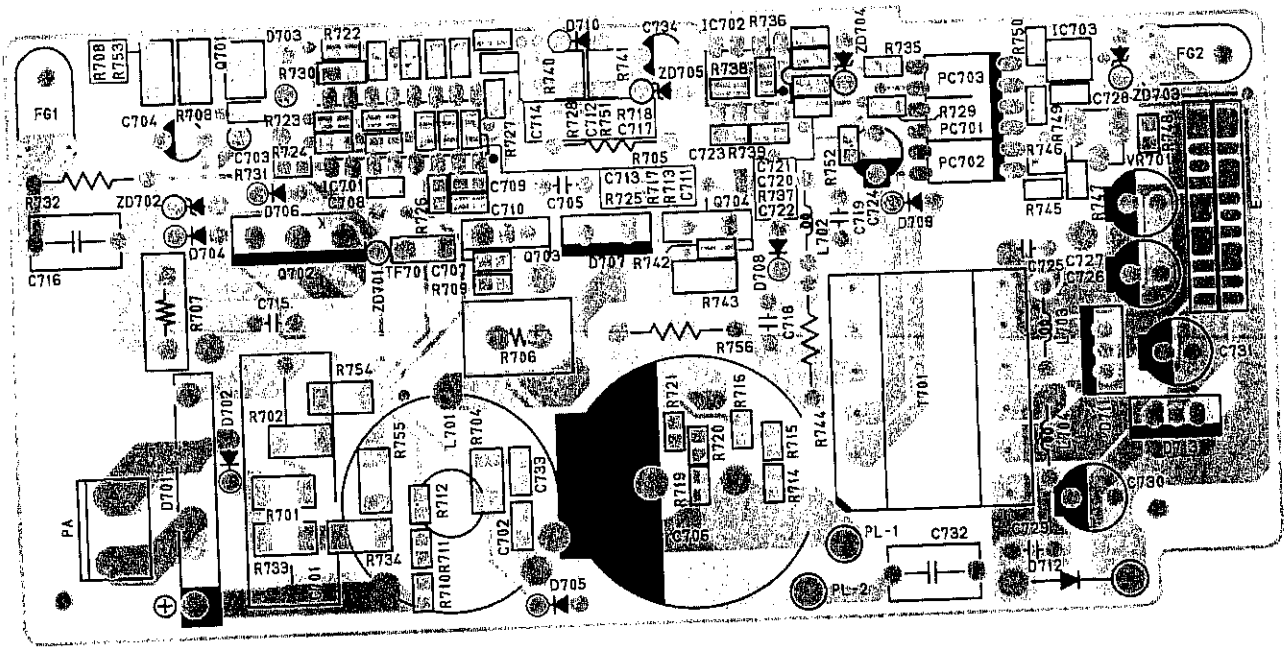

PC I/F Unit (Component Side)/
PC-I/F-Einheit (Bestückungsseite)



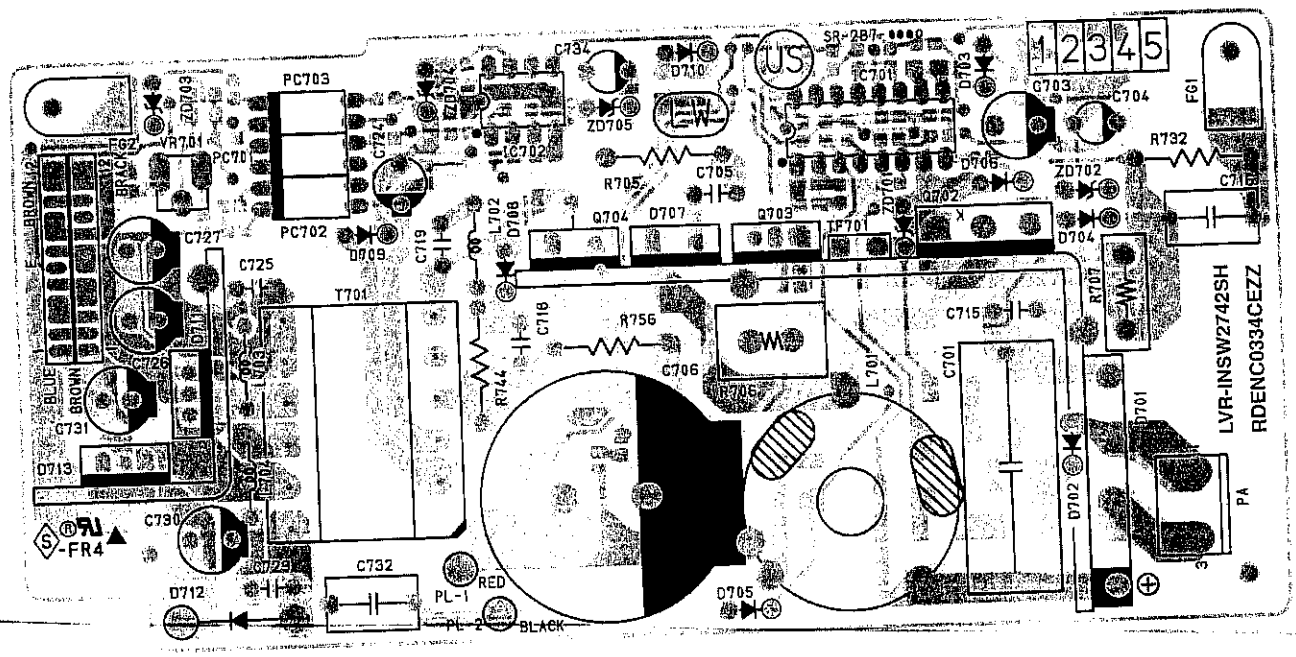

**Sound Out/Regulator Unit (Wiring Side)/**
**Tonausgabe/Reglereinheit (Leiterbahnseite)**



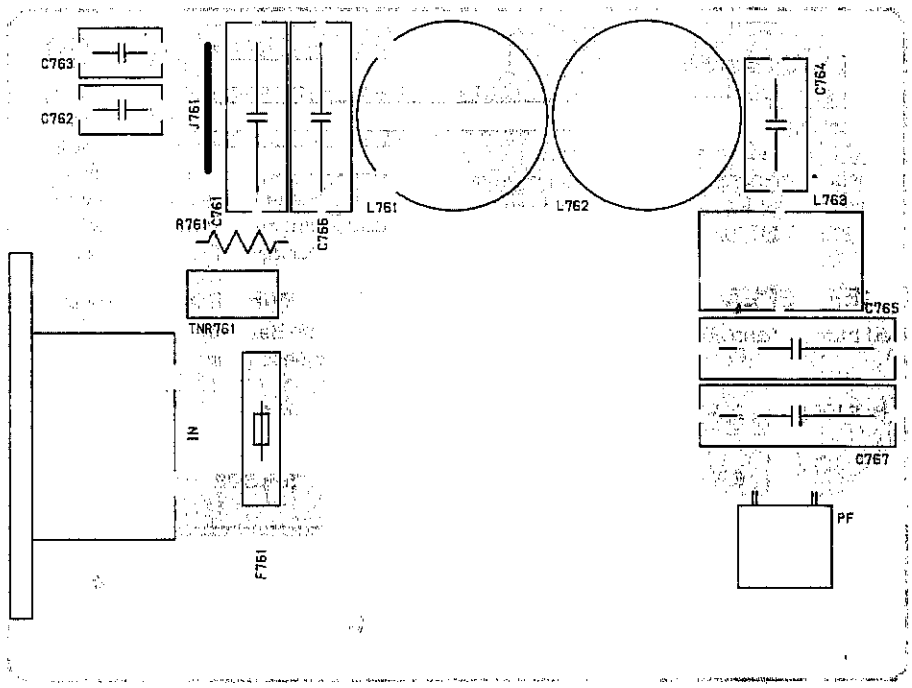

**Sound Out/Regulator Unit (Component Side)/**
**Tonausgabe/Reglereinheit (Bestückungsseite)**



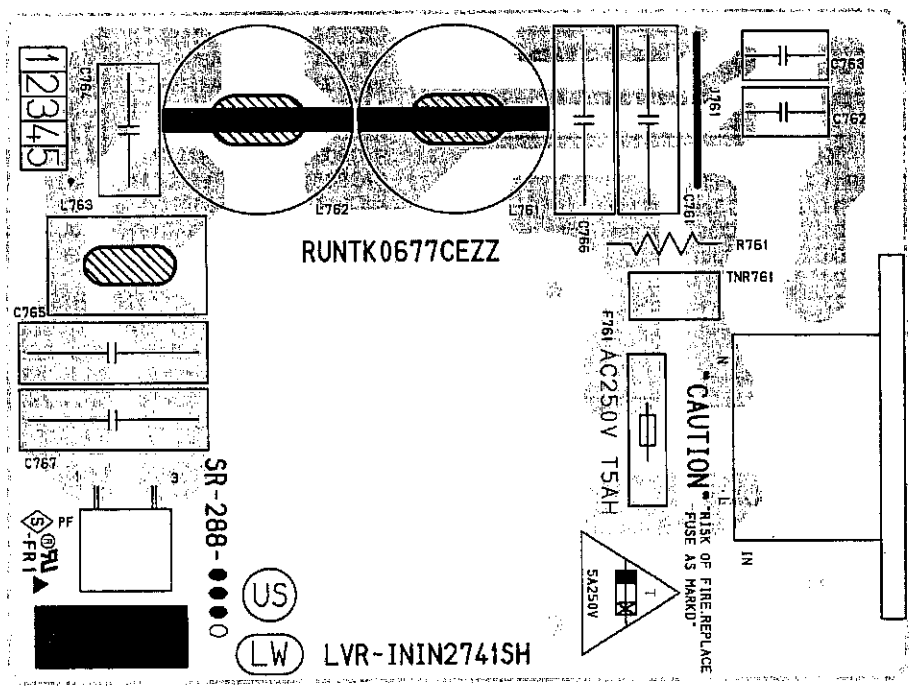
Power Unit (Wiring Side)/
Netzeinheit (Leiterbahnseite)



Power Unit (Component Side)/
Netzeinheit (Bestückungsseite)




**Inlet Unit (Wiring Side)/**
**Eingangseinheit (Leiterbahnseite)**




**Inlet Unit (Component Side)/**
**Eingangseinheit (Bestückungsseite)**

# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists.
The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

## "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION
5. CODE
6. QUANTITY

★ MARK : SPARE PARTS-DELIVERY SECTION

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## LCD PANELS

***NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.***

| | | | | |
|---|---|---|---|---|
| | RLCDP0141CEZZ | J | LCD Module Unit, Red | CT |
| | RLCDP0142CEZZ | J | LCD Module Unit, Green | CT |
| | RLCDP0143CEZZ | J | LCD Module Unit, Blue | CT |

## PRINTED WIRING BOARD ASSEMBLIES
## *(NOT REPLACEMENT ITEM)*

### XG-C40XU

| | | | | |
|---|---|---|---|---|
| | DUNTKA211DE11 | – | Signal Unit | — |
| | DUNTKA212DE11 | – | PC Terminal Unit | — |
| | DUNTKA693FE01 | – | S-Out/Regulater Unit | — |
| | DUNTKA694FE01 | – | Output Unit | — |
| | DUNTK9769DE24 | – | Video Unit | — |
| | RUNTK0677CEZZ | – | AC Inlet Unit | — |
| | RDENC0334CEZZ | – | Power Unit | — |
| | CPCi-0047CE15 | – | PC I/F Unit | — |
| | RDENC0333CEZZ | J | Ballast Unit (Unit Replacement Item) | |
| | PFILD0076CEZZ | J | | AE |
| | RUNTK0673CEZZ | J | Remote Mouse Receiver | BM |

### XG-C40XE

| | | | | |
|---|---|---|---|---|
| | DUNTKB116DE02 | – | Signal Unit | — |
| | DUNTKB117DE02 | – | PC Terminal Unit | — |
| | DUNTKA693FE02 | – | S-Out/Regulater Unit | — |
| | DUNTKA694FE02 | – | Output Unit | — |
| | DUNTK9769DE25 | – | Video Unit | — |
| | RUNTK0677CEZZ | – | AC Inlet Unit | — |
| | RDENC0334CEZZ | – | Power Unit | — |
| | CPCi-0047CE16 | – | PC I/F Unit | — |
| | RDENC0333CEZZ | J | Ballast Unit (Unit Replacement Item) | |

# ERSATZTEILLISTE

## AUSTAUSCH VON TEILEN

Ersatzteile, die besondere Sicherheitseigenschften haben, sind in dieser Anleitung markiert. Elektrische Komponenten mit solchen Eigenshaften sind in den Ersatzteil durch "⚠" gekenn-zeichnet.
Der Gebrauch von Ersatzteilen, die nicht deselben Sicherheits-eigenschaften haben wie die vom Hersteller empfohlenen ud in der Bedienungsanleitung angegebenen, können zur Ursache von Blitzeinschlägen, Bränden und anderen Gefahren werden.

## "WIE MAN ERSATSTEILE BESTELLT"

Damit Ihre Bestellung promt und korrekt ausgeführt wird, geben Sie bitte folgende Informationen.

1. MODELL NR.
2. REF. NR.
3. ERSATZTEIL NR.
4. BESCHREIBUNG
5. KODE
6. QUANTITÄT

★ MARKIERUNG : ERSATZTEILE-LIEFERUNG

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## DUNTKA211DE11/B116DE02
## SIGNAL UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC401 | VHiNJM2240M-1 | J | NJM2240M | AG |
| IC402 | VHiNJM2240M-1 | J | NJM2240M | AG |
| IC406 | VHiBA7046F/-1 | J | BA7046F | AF |
| IC409 | VHiMM1041XM-1 | J | MM1041XMR | AG |
| IC418 | VHiSN2G53CT-1 | J | SN74AHC2G53HDC | AE |
| IC602 | VHiTHC4538T-1 | J | Tc74Hc4538Aft | AL |
| IC603 | VHiTHC4538T-1 | J | Tc74Hc4538Aft | AL |
| IC604 | VHiSNHC153T-1 | J | SN74HC153PW | AK |
| IC801 | VHiTDA8854H-2 | J | TDA8854H/N2 | BD |
| IC803 | VHiTDA4565/-1 | J | TDA4565/V6 | AN |
| IC805 | VHiNJM2060V-1 | J | NJM2060V | AF |
| IC806 | VHiTC90A11F-1 | J | TC90A11F | AZ |
| IC807 | VHiM518221A-1 | J | MSM518221A-30J | AW |
| IC808 | VHiPST600DM-1 | J | IC-PSt600DMT | AE |
| IC814 | VHiTA8814N/-1 | J | TA8814N | AV |
| IC816 | VHiNJM2283V-1 | J | NJM2283V | AG |
| IC1001 | VHiBA08SFP+-1 | J | BA08SFP-E2 | AG |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q411 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q416 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q420 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q421 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q422 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q804 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q805 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q806 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q808 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q809 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q810 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q814 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q815 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q816 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q817 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q819 | VSDTC144EK/-1 | J | DTC144EK | AB |
| Q820 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q821 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q822 | VSDTC114EK/-1 | J | DTC114EK | AB |
| Q823 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q824 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q825 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q903 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q905 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q906 | VS2SC3928AR-1 | J | 2SC3928AR | AB |

# DUNTKA211DE11/B116DE02
## SIGNAL UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| Q907 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q910 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| | | | **DIODES** | |
| D801 | VHDMA152WA/-1 | J | Diode | AA |
| D802 | RH-EX0226CEZZ | J | Zener Diode | AB |
| D803 | RH-EX0226CEZZ | J | Zener Diode | AB |
| D805 | VHDDAN202K/-1 | J | Diode | AB |
| D1005 | VHDDAN202K/-1 | J | Diode | AB |
| | | | **PACKAGED CIRCUITS** | |
| X801 | RCRSB0009PEZZ | J | Crystal | AL |
| X802 | RCRSB0008PEZZ | J | Crystal | AH |
| | | | **COILS** | |
| L904 | VP-1M330J4R2N | J | Peaking 33µH | AC |
| L905 | VP-1M270J3R8N | J | Peaking 27µH | AC |
| L906 | VP-1M330J4R2N | J | Peaking 33µH | AC |
| L908 | VP-1M220J2R9N | J | Peaking 22µH | AC |
| | | | **CAPACITORS** | |
| C404 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C414 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C416 | VCKYCY1AF105Z | J | 1.0 10V Ceramic | AC |
| C425 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C437 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C441 | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA |
| C443 | VCKYCY1HF102Z | J | 1000p 50V Ceramic | AA |
| C447 | VCCCCY1HH5R0C | J | 5.0p 50V Ceramic | AA |
| C448 | VCEAPF1HW475M | J | 4.7 50V Electrolytic | AB |
| C450 | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA |
| C451 | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA |
| C452 | VCKYCY1HF102Z | J | 1000p 50V Ceramic | AA |
| C453 | RC-EZ1138CEZZ | J | 10 10V Electrolytic | AF |
| C454 | VCCCCY1HH7R0D | J | 7.0p 50V Ceramic | AA |
| C455 | VCEAPF1CW226M | J | 22 16V Electrolytic | AB |
| C456 | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA |
| C458 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C472 | VCEAPF0JW476M | J | 47 6.3V Electrolytic | AB |
| C485 | VCEAPF1HW475M | J | 4.7 50V Electrolytic | AB |
| C486 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C487 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C488 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C489 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C490 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C491 | VCCCCY1EH102J | J | 1000p 25V Ceramic | AB |
| C495 | VCEAPF1CW226M | J | 22 16V Electrolytic | AB |
| C601 | VCEAPF1HW105M | J | 1.0 50V Electrolytic | AB |
| C602 | VCFRED1HM472J | J | 4700p 50V Mylar | AD |
| C603 | VCFRED1HM222J | J | 2200p 50V Mylar | AC |
| C606 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C607 | VCCCCY1EH102J | J | 1000p 25V Ceramic | AB |
| C608 | VCCCCY1EH102J | J | 1000p 25V Ceramic | AB |
| C609 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C610 | VCCCCY1EH102J | J | 1000p 25V Ceramic | AB |
| C611 | VCCCCY1EH102J | J | 1000p 25V Ceramic | AB |
| C612 | VCEAPF0JW476M | J | 47 6.3V Electrolytic | AB |
| C613 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C810 | VCCCCY1HH180J | J | 18p 50V Ceramic | AA |
| C811 | VCCCCY1HH180J | J | 18p 50V Ceramic | AA |
| C812 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C814 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C815 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C816 | VCKYCY1HF103Z | J | 0.01 50V Ceramic | AA |
| C817 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C818 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C819 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C822 | VCCCCY1HH470J | J | 47p 50V Ceramic | AA |
| C823 | VCCCCY1HH470J | J | 47p 50V Ceramic | AA |
| C824 | VCCCCY1HH221J | J | 220p 50V Ceramic | AA |
| C825 | VCCCCY1HH221J | J | 220p 50V Ceramic | AA |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| C826 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C827 | VCE9PF1HW105M | J | 1.0 50V Elect.(N.P) | AC |
| C828 | VCE9PF1HW105M | J | 1.0 50V Elect.(N.P) | AC |
| C829 | VCEAPF1CW226M | J | 22 16V Electrolytic | AB |
| C830 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C831 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C832 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C833 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C834 | VCFRED1HM332J | J | 3300p 50V Mylar | AD |
| C835 | VCEAPF1CW107M | J | 100 16V Electrolytic | AD |
| C836 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C837 | VCEAPF1CW107M | J | 100 16V Electrolytic | AD |
| C838 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C839 | VCEAPF1HW225M | J | 2.2 50V Electrolytic | AB |
| C840 | VCFYEC1CM223J | J | 0.022 16V Mylar | AC |
| C844 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C845 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C852 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C856 | VCFYEC1CM274J | J | 0.27 16V Mylar | AE |
| C857 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C860 | VCCCCY1HH221J | J | 220p 50V Ceramic | AA |
| C861 | VCE9PF1CW106M | J | 10 16V Elect.(N.P) | AC |
| C862 | VCCCCY1HH390J | J | 39p 50V Ceramic | AA |
| C863 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C864 | VCE9PF1HW105M | J | 1.0 50V Elect.(N.P) | AC |
| C865 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C867 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C868 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C869 | VCKYCY1CF224Z | J | 0.22 16V Ceramic | AA |
| C870 | VCCCCY1HH101J | J | 100p 50V Ceramic | AA |
| C871 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C872 | VCEAPF1CW106M | J | 10 16V Electrolytic | AB |
| C873 | VCFYEC1CM274J | J | 0.27 16V Mylar | AE |
| C877 | VCEAPF1CW106M | J | 10 16V Electrolytic | AB |
| C878 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C879 | VCEAPF1CW106M | J | 10 16V Electrolytic | AB |
| C880 | VCE9PF1CW106M | J | 10 16V Elect.(N.P) | AC |
| C881 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C882 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C883 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C885 | VCCCCY1HH470J | J | 47p 50V Ceramic | AA |
| C886 | VCEAPF1CW226M | J | 22 16V Electrolytic (XG-C40XE) | AB |
| C887 | VCEAPF1CW106M | J | 10 16V Electrolytic (XG-C40XE) | AB |
| C891 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C892 | VCKYCY1EF104Z | J | 0.1 25V Ceramic | AA |
| C893 | VCEAPF1HW225M | J | 2.2 50V Electrolytic | AB |
| C903 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C904 | VCCCCY1HH120J | J | 12p 50V Ceramic | AA |
| C905 | VCCCCY1HH360J | J | 36p 50V Ceramic | AA |
| C906 | VCEAPF1HW105M | J | 1.0 50V Electrolytic | AB |
| C907 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C908 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C909 | VCKYCY1HB103K | J | 0.01 50V Ceramic | AA |
| C910 | VCCCCY1HH181J | J | 180p 50V Ceramic | AA |
| C911 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C912 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C913 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C914 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C915 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C916 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C917 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C918 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C919 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C920 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C921 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C922 | VCEAPF1CW106M | J | 10 16V Electrolytic | AB |
| C923 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C924 | RC-EZ0569CEZZ | J | 10 10V Electrolytic | AF |
| C925 | VCKYCY1CF104Z | J | 0.1 16V Ceramic | AA |
| C926 | VCCCCY1HH220J | J | 22p 50V Ceramic | AA |
| C927 | VCCCCY1HH5R0C | J | 5.0p 50V Ceramic | AA |
| C930 | VCCCCY1HH330J | J | 33p 50V Ceramic | AA |
| C931 | VCCCCY1HH470J | J | 47p 50V Ceramic | AA |

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## SIGNAL UNIT (Continued)

| Ref. No. | Part No. | ★ | | | Description | Code |
|---|---|---|---|---|---|---|
| C932 | VCKYCY1AF105Z | J | 1.0 | 10V | Ceramic | AC |
| C933 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C934 | VCE9PF1CW106M | J | 10 | 16V | Elect.(N.P) | AC |
| C935 | VCCCCY1HH390J | J | 39p | 50V | Ceramic | AA |
| C936 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C937 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C938 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C939 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C945 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C946 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C948 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C949 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C950 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C951 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C954 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C957 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C958 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C959 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C960 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C962 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C963 | VCEAPF1CW226M | J | 22 | 16V | Electrolytic | AB |
| C964 | VCFYEC1CM104J | J | 0.1 | 16V | Mylar | AD |
| C965 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C966 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C967 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C968 | VCKYCY1HF103Z | J | 0.01 | 50V | Ceramic | AA |
| C970 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C973 | VCCCCY1HH390J | J | 39p | 50V | Ceramic | AA |
| C1009 | RC-EZ0569CEZZ | J | 10 | 10V | Electrolytic | AF |

### RESISTORS

| | | | | | |
|---|---|---|---|---|---|
| R409 | VRS-TV1JD4R7J | J | 4.7 | 1/16W Metal Oxide | AA |
| R410 | VRS-CY1JF273J | J | 27k | 1/16W Metal Oxide | AA |
| R411 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R412 | VRS-CY1JF822J | J | 8.2k | 1/16W Metal Oxide | AA |
| R413 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R414 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R415 | VRS-CY1JF151J | J | 150 | 1/16W Metal Oxide | AA |
| R416 | VRS-CY1JF562J | J | 5.6k | 1/16W Metal Oxide | AA |
| R417 | VRS-CY1JF331J | J | 330 | 1/16W Metal Oxide | AA |
| R418 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R419 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R438 | VRS-CY1JF474J | J | 470k | 1/16W Metal Oxide | AA |
| R439 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R440 | VRS-CY1JF331J | J | 330 | 1/16W Metal Oxide | AA |
| R472 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R477 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R478 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R479 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R480 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R481 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R482 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R496 | VRS-CY1JF361J | J | 360 | 1/16W Metal Oxide | AA |
| R497 | VRS-CY1JF332F | J | 3.3k | 1/16W Metal Oxide | AA |
| R503 | VRS-CY1JF392F | J | 3.9k | 1/16W Metal Oxide | AA |
| R505 | VRS-CY1JF361J | J | 360 | 1/16W Metal Oxide | AA |
| R584 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R603 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R604 | VRS-CY1JF562J | J | 5.6k | 1/16W Metal Oxide | AA |
| R605 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R608 | VRS-CY1JF152J | J | 1.5k | 1/16W Metal Oxide | AA |
| R611 | VRN-CY1JF133D | J | 13k | 1/16W Metal Film | AB |
| R613 | VRN-CY1JF752D | J | 7.5k | 1/16W Metal Film | AA |
| R614 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R615 | VRS-CY1JF182J | J | 1.8k | 1/16W Metal Oxide | AA |
| R616 | VRN-CY1JF682D | J | 6.8k | 1/16W Metal Film | AB |
| R617 | VRN-CY1JF103D | J | 10k | 1/16W Metal Film | AA |
| R619 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R621 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R622 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R623 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R624 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R650 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R699 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R806 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R807 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R808 | VRS-CY1JF561J | J | 560 | 1/16W Metal Oxide | AA |
| R811 | VRS-CY1JF681J | J | 680 | 1/16W Metal Oxide | AA |
| R812 | VRS-CY1JF183J | J | 18k | 1/16W Metal Oxide | AA |
| R815 | VRS-TX2HF5R6J | J | 5.6 | 1/2W Metal Oxide | AA |
| R816 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R817 | VRS-TX2HF4R7J | J | 4.7 | 1/2W Metal Oxide | AB |
| R819 | VRS-CY1JF392J | J | 3.9k | 1/16W Metal Oxide | AA |
| R820 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R821 | VRS-CY1JF473J | J | 47k | 1/16W Metal Oxide | AA |
| R832 | VRS-TX2HF4R7J | J | 4.7 | 1/2W Metal Oxide | AB |
| R835 | VRS-CY1JF393J | J | 39k | 1/16W Metal Oxide | AA |
| R837 | VRS-CY1JF564J | J | 560k | 1/16W Metal Oxide | AA |
| R838 | VRS-CY1JF333J | J | 33k | 1/16W Metal Oxide | AA |
| R839 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R840 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R841 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R842 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R843 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R844 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R845 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R846 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R848 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R849 | VRS-CY1JF472J | J | 4.7k | 1/16W Metal Oxide | AA |
| R850 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R851 | VRS-CY1JF822J | J | 8.2k | 1/16W Metal Oxide | AA |
| R852 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R853 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R855 | VRS-CY1JF221J | J | 220 | 1/16W Metal Oxide | AA |
| R856 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R857 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R858 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R859 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R860 | VRS-CY1JF822J | J | 8.2k | 1/16W Metal Oxide | AA |
| R861 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R862 | VRS-CY1JF472J | J | 4.7k | 1/16W Metal Oxide | AA |
| R863 | VRS-CY1JF473J | J | 47k | 1/16W Metal Oxide | AA |
| R865 | VRS-CY1JF682J | J | 6.8k | 1/16W Metal Oxide | AA |
| R866 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R867 | VRS-CY1JF183J | J | 18k | 1/16W Metal Oxide | AA |
| R869 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R870 | VRS-CY1JF682J | J | 6.8k | 1/16W Metal Oxide | AA |
| R871 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R872 | VRS-CY1JF472J | J | 4.7k | 1/16W Metal Oxide | AA |
| R873 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R874 | VRS-CY1JF683J | J | 68k | 1/16W Metal Oxide | AA |
| R875 | VRS-CY1JF224J | J | 220k | 1/16W Metal Oxide | AA |
| R876 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R877 | VRS-CY1JF472J | J | 4.7k | 1/16W Metal Oxide | AA |
| R878 | VRS-CY1JF682J | J | 6.8k | 1/16W Metal Oxide | AA |
| R879 | VRS-CY1JF332J | J | 3.3k | 1/16W Metal Oxide | AA |
| R880 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R891 | VRS-CY1JF682J | J | 6.8k | 1/16W Metal Oxide | AA |
| R892 | VRS-CY1JF273J | J | 27k | 1/16W Metal Oxide | AA |
| R893 | VRS-CY1JF392J | J | 3.9k | 1/16W Metal Oxide | AA |
| R894 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R895 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R898 | VRS-CY1JF333J | J | 33k | 1/16W Metal Oxide | AA |
| R901 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R902 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R903 | VRS-CY1JF821J | J | 820 | 1/16W Metal Oxide | AA |
| R905 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R906 | VRS-TV1JD122J | J | 1.2k | 1/16W Metal Oxide | AA |
| R907 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R908 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R909 | VRN-CY1JF102D | J | 1.0k | 1/16W Metal Film | AB |
| R910 | VRS-TV1JD122J | J | 1.2k | 1/16W Metal Oxide | AA |
| R911 | VRS-TV1JD471J | J | 470 | 1/16W Metal Oxide | AA |
| R912 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R913 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R914 | VRS-CY1JF821J | J | 820 | 1/16W Metal Oxide | AA |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## DUNTKA211DE11/B116DE02
### SIGNAL UNIT (Continued)

| | | | | | |
|---|---|---|---|---|---|
| R915 | VRN-CY1JF332D | J | 3.3k | 1/16W Metal Film | AA |
| R916 | VRN-CY1JF332D | J | 3.3k | 1/16W Metal Film | AA |
| R917 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R918 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R919 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R920 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R922 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R923 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R924 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R925 | VRS-TV1JD222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R926 | VRS-CY1JF823J | J | 82k | 1/16W Metal Oxide | AA |
| R927 | VRS-CY1JF473J | J | 47k | 1/16W Metal Oxide | AA |
| R928 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R929 | VRS-CY1JF561J | J | 560 | 1/16W Metal Oxide | AA |
| R930 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R931 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R932 | VRS-CY1JF152J | J | 1.5k | 1/16W Metal Oxide | AA |
| R933 | VRS-CY1JF681J | J | 680 | 1/16W Metal Oxide | AA |
| R934 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R935 | VRS-CY1JF273J | J | 27k | 1/16W Metal Oxide | AA |
| R936 | VRS-TX2HF5R6J | J | 5.6 | 1/2W Metal Oxide | AA |
| R937 | VRS-CY1JF273J | J | 27k | 1/16W Metal Oxide | AA |
| R938 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R939 | VRS-CY1JF822J | J | 8.2k | 1/16W Metal Oxide | AA |
| R940 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R941 | VRS-CY1JF331J | J | 330 | 1/16W Metal Oxide | AA |
| R942 | VRS-CY1JF750J | J | 75 | 1/16W Metal Oxide | AA |
| R943 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R944 | VRS-CY1JF562J | J | 5.6k | 1/16W Metal Oxide | AA |
| R945 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R952 | VRS-TX2HF6R8J | J | 6.8 | 1/2W Metal Oxide | AA |
| R953 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R954 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R955 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R956 | VRS-CY1JF681J | J | 680 | 1/16W Metal Oxide | AA |
| R957 | VRS-CY1JF154J | J | 150k | 1/16W Metal Oxide | AA |
| R958 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R959 | VRS-TV1JD222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R964 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R975 | VRS-TX2HF5R6J | J | 5.6 | 1/2W Metal Oxide | AA |
| R976 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R980 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R981 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R982 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R983 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R990 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R991 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R999 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1005 | VRS-TX2HF5R6J | J | 5.6 | 1/2W Metal Oxide | AA |
| R1006 | VRS-TX2HF5R6J | J | 5.6 | 1/2W Metal Oxide | AA |
| R1007 | VRN-CY1JF562D | J | 5.6k | 1/16W Metal Film | AB |
| R1008 | VRN-CY1JF102D | J | 1.0k | 1/16W Metal Film | AB |
| R1009 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1010 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide (XG-C40XE) | AA |
| R1011 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide (XG-C40XE) | AA |
| R1013 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide (XG-C40XE) | AA |
| R1801 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R1802 | VRS-CY1JF333J | J | 33k | 1/16W Metal Oxide | AA |
| R1803 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1804 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1805 | VRS-CY1JF102F | J | 1.0k | 1/16W Metal Oxide | AA |
| R1806 | VRS-CY1JF102F | J | 1.0k | 1/16W Metal Oxide | AA |
| R1807 | VRS-CY1JF122J | J | 1.2k | 1/16W Metal Oxide | AA |
| R1808 | VRS-CY1JF821J | J | 820 | 1/16W Metal Oxide | AA |
| R1809 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1810 | VRS-CY1JF122J | J | 1.2k | 1/16W Metal Oxide | AA |
| R1811 | VRS-CY1JF122J | J | 1.2k | 1/16W Metal Oxide | AA |
| R1812 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R1813 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R1814 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide (XG-C40XE) | AA |
| R1819 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1820 | VRS-CY1JF152J | J | 1.5k | 1/16W Metal Oxide | AA |
| R1822 | VRS-CY1JF332J | J | 3.3k | 1/16W Metal Oxide | AA |
| R1823 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1825 | VRS-CY1JF391J | J | 390 | 1/16W Metal Oxide | AA |
| R1826 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| FB402 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB902 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB903 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB904 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| P401 | QPLGZ3044CEZZ | J | Plug 30-Pin (TN) | AH |
| P402 | QPLGZ3044CEZZ | J | Plug 30-Pin (VS) | AH |
| P801 | QPLGN0463TAZZ | J | Plug 4-Pin | AC |
| P1501 | QPLGZ2026CEZZ | J | Plug 20-Pin | AE |
| P1502 | QPLGZ2026CEZZ | J | Plug 20-Pin | AE |

## DUNTKA212DE11/B117DE02
### PC TERMINAL UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC3003 | VHiTL712CPW-1 | J | TI712CPWR | AL |
| IC3004 | VHiTL712CPW-1 | J | TI712CPWR | AL |
| IC3005 | VHiTL712CPW-1 | J | TI712CPWR | AL |
| IC3006 | RH-iX2317CEZZ | J | SN74AIS1034NS | AF |
| IC3009 | VHiTL712CPW-1 | J | TI712CPWR | AL |
| IC3010 | VHiTL712CPW-1 | J | TI712CPWR | AL |
| IC3011 | VHiAD8185++-1 | J | AD8185ARU | AW |
| IC3012 | VHiVHC157MT-1 | J | 74VHC157MTCX | AE |
| IC3013 | VHi24LC21//-1 | J | 24LC21T | AN |
| IC3014 | VHi24LC21//-1 | J | 24LC21T | AN |
| IC3015 | VHiTL712CPW-1 | J | TI712CPWR | AL |
| IC3303 | VHiNJM2245M-1 | J | NJM2245M | AF |
| IC3304 | VHiNJM2245M-1 | J | NJM2245M | AF |
| IC7006 | VHiUPD4721G-1 | J | UPD4721G-GJG | AQ |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q3301 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q3302 | VSDTC143ZE/-1 | J | DTC143ZE | AB |

### DIODES

| | | | | |
|---|---|---|---|---|
| D3003 | VHDMA152WA/-1 | J | Diode | AA |
| D3004 | VHDMA152WA/-1 | J | Diode | AA |
| D3020 | VHDMA152WA/-1 | J | Diode | AA |
| D3021 | VHDMA152WA/-1 | J | Diode | AA |
| D3022 | VHDMA152WA/-1 | J | Diode | AA |
| D3023 | VHDMA152WA/-1 | J | Diode | AA |
| D3024 | VHDMA152WA/-1 | J | Diode | AA |
| D3028 | VHDMA152WA/-1 | J | Diode | AA |
| D3029 | VHDMA152WA/-1 | J | Diode | AA |
| D3032 | VHDMA152WA/-1 | J | Diode | AA |
| D3033 | VHDMA152WA/-1 | J | Diode | AA |
| D3034 | VHDMA152WA/-1 | J | Diode | AA |
| D3305 | VHDMA3120WA-1 | J | Diode | AK |
| D3306 | VHDMA3120WA-1 | J | Diode | AK |
| D3307 | VHDMA3120WA-1 | J | Diode | AK |
| D3311 | VHDMA157A//-1 | J | Diode | AC |
| D3312 | VHDMA157A//-1 | J | Diode | AC |
| D3313 | VHDMA157A//-1 | J | Diode | AC |
| D3314 | VHDMA157A//-1 | J | Diode | AC |
| D3315 | VHDMA157A//-1 | J | Diode | AC |
| D3316 | VHDMA157A//-1 | J | Diode | AC |
| D7025 | VHDMA3120WA-1 | J | Diode | AK |
| D7026 | VHDMA3120WA-1 | J | Diode | AK |
| D7027 | VHDMA3120WA-1 | J | Diode | AK |
| D7028 | VHDMA3120WA-1 | J | Diode | AK |

# DUNTKA212DE11/B117DE02
## PC TERMINAL UNIT (Continued)

### FILTERS AND COIL

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| FL3001 | RFILN0003TAZZ | J | Filter | AD |
| FL3002 | RFILN0003TAZZ | J | Filter | AD |
| FL3003 | RFILN0003TAZZ | J | Filter | AD |
| FL3006 | RFILN0003TAZZ | J | Filter | AD |
| FL3007 | RFILN0003TAZZ | J | Filter | AD |
| FL3008 | RFILN0003TAZZ | J | Filter | AD |
| FL3011 | RFILN0003TAZZ | J | Filter | AD |
| FL3012 | RFILN0003TAZZ | J | Filter | AD |
| FL3013 | RFILN0003TAZZ | J | Filter | AD |
| L3006 | VP-1M100J1R6N | J | Peaking 10µH | AC |

### CAPACITORS

| Ref. No. | Part No. | ★ | | | | Code |
|---|---|---|---|---|---|---|
| C3001 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C3002 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3003 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3004 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C3005 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3006 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3008 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C3009 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3010 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3027 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3028 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3029 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3030 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3031 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3032 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3033 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3034 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3039 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3040 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3041 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3042 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3043 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3044 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C3045 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3046 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C3047 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3062 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3063 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3065 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3066 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3067 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3070 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C3071 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3073 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C3075 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C3076 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3077 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3078 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3080 | VCEAPF0JW226M | J | 22 | 6.3V | Electrolytic | AB |
| C3081 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C3304 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C3305 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C3306 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C3309 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C3310 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C3311 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C3312 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C3313 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C3314 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C3319 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C3320 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C3321 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C3322 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C3323 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C7001 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C7017 | VCEAPF1HW225M | J | 2.2 | 50V | Electrolytic | AB |
| C7018 | VCEAPF1HW225M | J | 2.2 | 50V | Electrolytic | AB |
| C7019 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C7020 | VCEAPF1HW225M | J | 2.2 | 50V | Electrolytic | AB |
| C7021 | VCEAPF1HW225M | J | 2.2 | 50V | Electrolytic | AB |
| C7501 | VCEAPF0JW107M | J | 100 | 6.3V | Electrolytic | AC |
| C7502 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |

### RESISTORS

| Ref. No. | Part No. | ★ | | | | Code |
|---|---|---|---|---|---|---|
| R2001 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R2002 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R2003 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R3004 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3005 | VRS-CY1JF392J | J | 3.9k | 1/16W | Metal Oxide | AA |
| R3006 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3007 | VRS-CY1JF271J | J | 270 | 1/16W | Metal Oxide | AA |
| R3008 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R3009 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3010 | VRS-CY1JF392J | J | 3.9k | 1/16W | Metal Oxide | AA |
| R3011 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3012 | VRS-CY1JF271J | J | 270 | 1/16W | Metal Oxide | AA |
| R3013 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R3014 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3015 | VRS-CY1JF392J | J | 3.9k | 1/16W | Metal Oxide | AA |
| R3016 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3017 | VRS-CY1JF271J | J | 270 | 1/16W | Metal Oxide | AA |
| R3018 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R3023 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3024 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R3025 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R3026 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R3027 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R3028 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R3029 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R3030 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R3031 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R3032 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R3033 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R3036 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R3046 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3054 | VRS-CY1JF271J | J | 270 | 1/16W | Metal Oxide | AA |
| R3055 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R3056 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3057 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3058 | VRS-CY1JF392J | J | 3.9k | 1/16W | Metal Oxide | AA |
| R3059 | VRS-CY1JF271J | J | 270 | 1/16W | Metal Oxide | AA |
| R3060 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3061 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R3062 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3063 | VRS-CY1JF392J | J | 3.9k | 1/16W | Metal Oxide | AA |
| R3092 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3093 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3094 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3096 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3100 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3102 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3103 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3112 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3116 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3117 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3118 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3119 | VRS-CY1JF473J | J | 47k | 1/16W | Metal Oxide | AA |
| R3120 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R3121 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3130 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3131 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3132 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3138 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R3139 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R3140 | VRS-TW2ED750J | J | 75 | 1/4W | Metal Oxide | AA |
| R3141 | VRS-CY1JF473J | J | 47k | 1/16W | Metal Oxide | AA |
| R3142 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R3143 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3144 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3145 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R3146 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3147 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R3149 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |

# DUNTKA212DE11/B117DE02
## PC TERMINAL UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| R3150 | VRS-CY1JF271J | J | 270 1/16W Metal Oxide | AA |
| R3151 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R3152 | VRS-CY1JF392J | J | 3.9k 1/16W Metal Oxide | AA |
| R3153 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R3154 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R3155 | VRS-CY1JF680J | J | 68 1/16W Metal Oxide | AA |
| R3156 | VRS-CY1JF473J | J | 47k 1/16W Metal Oxide | AA |
| R3157 | VRS-CY1JF680J | J | 68 1/16W Metal Oxide | AA |
| R3158 | VRS-CY1JF473J | J | 47k 1/16W Metal Oxide | AA |
| R3159 | VRS-CY1JF680J | J | 68 1/16W Metal Oxide | AA |
| R3160 | VRS-CY1JF473J | J | 47k 1/16W Metal Oxide | AA |
| R3161 | VRS-CY1JF680J | J | 68 1/16W Metal Oxide | AA |
| R3162 | VRS-CY1JF473J | J | 47k 1/16W Metal Oxide | AA |
| R3163 | VRS-CY1JF680J | J | 68 1/16W Metal Oxide | AA |
| R3164 | VRS-CY1JF473J | J | 47k 1/16W Metal Oxide | AA |
| R3165 | VRS-CY1JF680J | J | 68 1/16W Metal Oxide | AA |
| R3166 | VRS-CY1JF473J | J | 47k 1/16W Metal Oxide | AA |
| R3301 | VRS-CY1JF123J | J | 12k 1/16W Metal Oxide | AA |
| R3302 | VRS-CY1JF123J | J | 12k 1/16W Metal Oxide | AA |
| R3303 | VRS-CY1JF224J | J | 220k 1/16W Metal Oxide | AA |
| R3304 | VRS-CY1JF224J | J | 220k 1/16W Metal Oxide | AA |
| R3309 | VRS-CY1JF681J | J | 680 1/16W Metal Oxide | AA |
| R3310 | VRS-CY1JF681J | J | 680 1/16W Metal Oxide | AA |
| R3311 | VRS-CY1JF105J | J | 1.0M 1/16W Metal Oxide | AA |
| R3312 | VRS-CY1JF105J | J | 1.0M 1/16W Metal Oxide | AA |
| R3313 | VRS-TV1JD000J | J | 0 1/16W Metal Oxide (XG-C40XE) | AA |
| R3314 | VRS-TV1JD000J | J | 0 1/16W Metal Oxide (XG-C40XE) | AA |
| R3319 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R3320 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R3321 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R3322 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R3323 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R3324 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R3325 | VRS-CY1JF272J | J | 2.7k 1/16W Metal Oxide | AA |
| R3326 | VRS-TV1JD122J | J | 1.2k 1/16W Metal Oxide | AA |
| R3327 | VRS-CY1JF272J | J | 2.7k 1/16W Metal Oxide | AA |
| R3328 | VRS-CY1JF153J | J | 15k 1/16W Metal Oxide | AA |
| R3329 | VRS-TW2ED750J | J | 75 1/4W Metal Oxide | AA |
| R3330 | VRS-TW2ED750J | J | 75 1/4W Metal Oxide | AA |
| R3331 | VRS-TW2ED750J | J | 75 1/4W Metal Oxide | AA |
| R7045 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R7048 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R7090 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R7091 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R7501 | VRS-CY1JF471J | J | 470 1/16W Metal Oxide | AA |
| R7562 | VRS-TX2HF220J | J | 22 1/2W Metal Oxide | AB |
| R7563 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R7564 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R7565 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R7566 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R7567 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| FB3004 | RBLN-0060TAZZ | J | Frrite Bead | AB |
| FB3005 | RBLN-0060TAZZ | J | Frrite Bead | AB |
| FB3009 | RBLN-0060TAZZ | J | Frrite Bead | AB |
| FB3010 | RBLN-0060TAZZ | J | Frrite Bead | AB |
| FB3014 | RBLN-0060TAZZ | J | Frrite Bead | AB |
| FB3015 | RBLN-0060TAZZ | J | Frrite Bead | AB |
| FB3016 | RBLN-0060TAZZ | J | Frrite Bead | AB |
| FB3301 | RBLN-0062TAZZ | J | Frrite Bead | AB |
| FB3302 | RBLN-0062TAZZ | J | Frrite Bead | AB |
| FB3303 | RBLN-0062TAZZ | J | Frrite Bead(XG-C40XU) | AB |
| FB3307 | RBLN-0062TAZZ | J | Frrite Bead | AB |
| FB3308 | RBLN-0062TAZZ | J | Frrite Bead | AB |
| FB3309 | RBLN-0062TAZZ | J | Frrite Bead(XG-C40XU) | AB |
| FB7001 | RBLN-0058TAZZ | J | Frrite Bead | AC |
| FB7002 | RBLN-0058TAZZ | J | Frrite Bead | AC |
| FB7003 | RBLN-0058TAZZ | J | Frrite Bead | AC |
| FB7004 | RBLN-0058TAZZ | J | Frrite Bead | AC |
| J3301 | QJAKJ0008GEZZ | J | Jack JDIO-IN | AD |
| J3303 | QJAKJ0008GEZZ | J | Jack TOR-OUT | AD |
| SC3001 | QSOCZ3043CEZZ | J | Socket 30-Pin (TN) | AG |
| SC3002 | QSOCN0448FJZZ | J | Socket 15-Pin D-sub | AM |
| SC3003 | QSOCN0448FJZZ | J | Socket 15-Pin D-sub | AM |
| SC3004 | QSOCN0344FJZZ | J | Socket 15-Pin D-sub | AM |
| SC7004 | QSOCD0901CEZZ | J | Socket 9-Pin D-sub | AH |
| RMC7501 | RRMCU0233CEZZ | J | R/C Receiver | AF |
| | PSLDM3024CEFW | J | Sheild | AK |
| | QEARP0085CEFW | J | Sheild | AD |
| | NSFTZ0134CEFW | J | Shafr | AD |

# DUNTKA693DE01/02
## SOUND OUT/REGULATOR UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC1030 | RH-iX2204CEZZ | J | PQ12TZ11 | AG |
| IC1031 | VHiPQ05TZ11-1 | J | PQ05TZ11 | AH |
| IC7301 | VHiTDA1517/-1 | J | TDA1517/N2 | AL |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q1001 | VSDTC144EK/-1 | J | DTC144EK | AB |
| Q1002 | VSDTC144EK/-1 | J | DTC144EK | AB |
| Q7301 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q7302 | VS2SD1664R/-1 | J | 2SD1664R | AC |
| Q7303 | VS2SD1664R/-1 | J | 2SD1664R | AC |
| Q7304 | VSDTA114EU/-1 | J | DTC114EU | AB |
| Q7305 | VSDTC114EU/-1 | J | DTC114EU | AB |

### DIODES

| | | | | |
|---|---|---|---|---|
| D1020 | VHDDAN202K/-1 | J | Diode | AB |
| D1021 | VHDDAN202K/-1 | J | Diode | AB |
| D1023 | RH-EX0516CEZZ | J | Zener Diode | AB |
| D1024 | RH-EX0516CEZZ | J | Zener Diode | AB |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C1020 | VCEAPF1EW336M | J | 33 | 25V | Electrolytic | AB |
| C1021 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1022 | VCEAPF1CW336M | J | 33 | 16V | Electrolytic | AB |
| C1023 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1024 | VCEAPF1CW336M | J | 33 | 16V | Electrolytic | AB |
| C1025 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1026 | VCEAPF1CW336M | J | 33 | 16V | Electrolytic | AB |
| C1027 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1046 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C1047 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1048 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1049 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C1050 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1051 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C1052 | VCKYCY1AF105Z | J | 1.0 | 10V | Ceramic | AC |
| C1053 | VCKYCY1AF105Z | J | 1.0 | 10V | Ceramic | AC |
| C7301 | VCEAPF1HW475M | J | 4.7 | 50V | Electrolytic | AB |
| C7302 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C7304 | VCE9PF1CW475M | J | 4.7 | 16V | Elect.(N.P) | AC |
| C7305 | VCCCCY1HH471J | J | 470p | 50V | Ceramic | AA |
| C7306 | VCEA2A1EW477M | J | 470 | 25V | Electrolytic | AD |
| C7307 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C7308 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C7309 | VCEA2A1CW108M | J | 1000 | 16V | Electrolytic | AB |
| C7310 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C7312 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C7315 | VCKYCY1AF105Z | J | 1.0 | 10V | Ceramic | AC |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R1020 | VRS-TX2HF5R6J | J | 5.6 | 1/2W | Metal Oxide | AA |
| R1021 | VRS-TX2HF5R6J | J | 5.6 | 1/2W | Metal Oxide | AA |
| R1022 | VRS-TV1JD103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1023 | VRS-TV1JD103J | J | 10k | 1/16W | Metal Oxide | AA |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

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## SOUND OUT/REGULATOR UNIT (Continued)

| | | | | | | |
|---|---|---|---|---|---|---|
| R1027 | VRS-TX2HF2R2J | J | 2.2 | 1/2W | Metal Oxide | AB |
| R1028 | VRS-TX2HF2R2J | J | 2.2 | 1/2W | Metal Oxide | AB |
| R1039 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1042 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1044 | VRS-CY1JF474F | J | 470k | 1/16W | Metal Oxide | AA |
| R1045 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1050 | VRS-TX2HF000J | J | 0 | 1/2W | Metal Oxide | AA |
| R7301 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R7302 | VRS-CY1JF682J | J | 6.8k | 1/16W | Metal Oxide | AA |
| R7303 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R7304 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R7307 | VRS-CY1JF392J | J | 3.9k | 1/16W | Metal Oxide | AA |
| R7310 | VRS-TV1JD103J | J | 10k | 1/16W | Metal Oxide | AA |
| R7311 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R7312 | VRS-TX2HF000J | J | 0 | 1/2W | Metal Oxide | AA |
| R7313 | VRS-TX2HF000J | J | 0 | 1/2W | Metal Oxide | AA |
| R7314 | VRS-TV1JD000J | J | 0 | 1/16W | Metal Oxide | AA |
| R7315 | VRS-TX2HF2R2J | J | 2.2 | 1/2W | Metal Oxide | AB |
| R7316 | VRS-TX2HF2R2J | J | 2.2 | 1/2W | Metal Oxide | AB |
| R7317 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| UNT1001 | RCNVD0015CEZZ | J | DC/DC Converter | BC |
| FB1005 | RBLN-0060CEZZ | J | Frrite Bead | AC |
| P1010 | QPLGN0428FJZZ | J | Plug 18-Pin (EA) | AD |
| P1011 | QPLGN0430FJZZ | J | Plug 20-Pin (EB) | AD |
| P7302 | QPLGN0464TAZZ | J | Plug 4-Pin (SO) | AC |
| P7303 | QPLGN0174FJZZ | J | Plug 2-Pin (SP) | AC |
| | PRDAR1551CEFW | J | Heat Sink | AG |
| | QCNW-5705CEZZ | J | Connecting Cord | AF |
| | LHLDW1072GEZZ | J | Holder | AA |
| | LX-BZ3266CEFD | J | Screw | AA |

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## OUTPUT UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC1004 | RH-iX2204CEZZ | J | PQ12TZ11 | AG |
| IC1101 | VHiET6050S0-1 | J | ET6050S0B | BA |
| IC1102 | VHiET6050S0-1 | J | ET6050S0B | BA |
| IC1106 | VHiET1030F0-1 | J | ET1030F0A | AW |
| IC1201 | VHiET6050S0-1 | J | ET6050S0B | BA |
| IC1202 | VHiET6050S0-1 | J | ET6050S0B | BA |
| IC1204 | VHiNJM2902V-1 | J | NJM2902V | AD |
| IC1206 | VHiET1030F0-1 | J | ET1030F0A | AW |
| IC1301 | VHiET6050S0-1 | J | ET6050S0B | BA |
| IC1302 | VHiET6050S0-1 | J | ET6050S0B | BA |
| IC1306 | VHiET1030F0-1 | J | ET1030F0A | AW |
| IC1307 | VHiLM2663M+-1 | J | LM2663MX | AS |
| IC1401 | VHiCXA2111R-1 | J | CXA2111R | BB |
| IC1402 | VHi74LV221+-1 | J | SN74LV221ANSR | AG |
| IC1403 | VHiNJM2060V-1 | J | NJM2060V | AF |
| IC1404 | VHiM62352GP-1 | J | M62352GP | AQ |
| IC1406 | VHiT7SET08U-1 | J | TC7SET08FU | AE |
| IC1408 | VHiHCT541AF-1 | J | TC74HCT541AF | AG |
| IC1409 | VHiPQ20VZ11-1 | J | PQ20VZ11 | AH |
| IC1410 | VHiPQ05TZ11-1 | J | PQ05TZ11 | AH |
| IC1411 | VHiTA8184F/-1 | J | TA8184F | AN |
| IC1412 | VHiM62352GP-1 | J | M62352GP | AQ |
| IC1501 | VHiLV4053AT-1 | J | SN74LV4053APWR | AE |
| IC1502 | VHiNJM2902V-1 | J | NJM2902V | AD |
| IC1504 | VHiLV123AT+-1 | J | SN74LV123APWR | AF |
| IC1505 | VHiAHC2G241-1 | J | SN74AHC2G241HD | AF |
| IC1506 | VHiAHC2G241-1 | J | SN74AHC2G241HD | AF |
| IC1507 | VHiPQ05TZ11-1 | J | PQ05TZ11 | AH |
| IC1508 | VHiAHC2G241-1 | J | SN74AHC2G241HD | AF |
| IC1701 | VHiNJM2904V-1 | J | NJM2904V | AF |
| IC5003 | VHiM62352GP-1 | J | M62352GP | AQ |
| IC5004 | VHiM62320FP-1 | J | M62320FP | AK |
| IC5005 | VHiM62320FP-1 | J | M62320FP | AK |
| IC5006 | VHiSNHC00T/-1 | J | SN74HC00PW | AG |
| IC5007 | VHiM62320FP-1 | J | M62320FP | AK |
| IC5008 | VHiM24C64WN-1 | J | M24C64-WMN6T | AL |
| IC5009 | VHiSNHC08T/-1 | J | SN74HC08PW | AG |
| IC5010 | VHiPST600iM-1 | J | IC-PST600IMT | AE |
| IC5021 | VHiBA033SFP-1 | J | BA033SFP-E2 | AG |
| IC5101 | RH-iX3393CEZZ | J | MB89P538-101PF | AR |
| IC5102 | VHiAHC2G241-1 | J | SN74AHC2G241HD | AF |
| IC5503 | VHiPQ05SZ51-1 | J | PQ05SZ51 | AG |
| IC5504 | VHiBA00ASFP-1 | J | BA00ASFP-E2 | AG |
| IC5505 | VHiBA00ASFP-1 | J | BA00ASFP-E2 | AG |
| IC5506 | VHiSN1G66DC-1 | J | SN74AHC1G66HDC | AD |
| IC5507 | VHiBA00ASFP-1 | J | BA00ASFP-E2 | AG |
| IC5508 | VHiBA00ASFP-1 | J | BA00ASFP-E2 | AG |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q1101 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q1105 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1106 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1107 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1108 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1110 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1112 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1113 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1114 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1205 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1206 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1207 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1208 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1210 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1211 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1212 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1213 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1301 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q1305 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1306 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1307 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1308 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1310 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1311 | VS2SC2411KR-1 | J | 2SC2411KR | AC |
| Q1312 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1313 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q1401 | VS2SC2735//-1 | J | 2SC2735 | AB |
| Q1402 | VS2SC2735//-1 | J | 2SC2735 | AB |
| Q1403 | VS2SC2735//-1 | J | 2SC2735 | AB |
| Q1410 | VS2SC2735//-1 | J | 2SC2735 | AB |
| Q1411 | VS2SC2735//-1 | J | 2SC2735 | AB |
| Q1412 | VS2SC2735//-1 | J | 2SC2735 | AB |
| Q1413 | VS2SC2735//-1 | J | 2SC2735 | AB |
| Q1501 | VSHN1B04FU/-1 | J | HN1B04FU | AC |
| Q1502 | VSHN1B04FU/-1 | J | HN1B04FU | AC |
| Q1503 | VSHN1B04FU/-1 | J | HN1B04FU | AC |
| Q1505 | VSHN1B04FU/-1 | J | HN1B04FU | AC |
| Q1506 | VSHN1B04FU/-1 | J | HN1B04FU | AC |
| Q1507 | VSHN1B04FU/-1 | J | HN1B04FU | AC |
| Q1601 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q1602 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q1603 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q1604 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q1605 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1606 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1607 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1608 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1609 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1610 | VSDTC144EU/-1 | J | DTC144EU | AB |

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## OUTPUT UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| Q1611 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1612 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1613 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1614 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1615 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1616 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1617 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1618 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q1619 | VSDTC114EU/-1 | J | DTC114EU | AB |
| Q1620 | VSDTC114EU/-1 | J | DTC114EU | AB |
| Q5002 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5003 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5004 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5005 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5007 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5008 | VSDTC144EU/-1 | J | DTC144EU | AB |
| Q5514 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5516 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5517 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5518 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q5519 | VSDTC114EU/-1 | J | DTC114EU | AB |
| Q5520 | VS2SA1036KR-1 | J | 2SA1036KR | AC |
| Q5526 | VSDTC114EU/-1 | J | DTC114EU | AB |
| Q5536 | VS2SC3928AR-1 | J | 2SC3928AR | AB |

### DIODES

| | | | | |
|---|---|---|---|---|
| D1003 | VHDDAN202K/-1 | J | Diode | AB |
| D1401 | VHDDAN202K/-1 | J | Diode | AB |
| D1402 | VHDDAN202K/-1 | J | Diode | AB |
| D1502 | VHDDAN202K/-1 | J | Diode | AB |
| D5001 | VHDHRW0702A-1 | J | Diode | AE |
| D5002 | VHDHRW0702A-1 | J | Diode | AE |
| D5003 | VHDHRW0702A-1 | J | Diode | AE |
| D5004 | VHDHRW0702A-1 | J | Diode | AE |
| D5005 | VHDMA153///-1 | J | Diode | AB |
| D5006 | VHDMA153///-1 | J | Diode | AB |
| D5007 | VHDMA153///-1 | J | Diode | AB |
| D5008 | VHDMA153///-1 | J | Diode | AB |
| D5009 | VHDHRW0702A-1 | J | Diode | AE |
| D5010 | VHDHRW0702A-1 | J | Diode | AE |
| D5011 | VHDHRW0702A-1 | J | Diode | AE |
| D5012 | VHDHRW0702A-1 | J | Diode | AE |
| D5013 | VHDMA153///-1 | J | Diode | AB |
| D5014 | VHDMA153///-1 | J | Diode | AB |
| D5015 | VHDMA153///-1 | J | Diode | AB |
| D5016 | VHDMA153///-1 | J | Diode | AB |
| D5017 | VHDHRW0702A-1 | J | Diode | AE |
| D5018 | VHDMA153///-1 | J | Diode | AB |
| D5023 | VHDDAN202K/-1 | J | Diode | AB |
| D5024 | RH-EX0858CEZZ | J | Zener Diode | AC |
| D5503 | VHDDAN202K/-1 | J | Diode | AB |
| D5504 | VHDDAN202K/-1 | J | Diode | AB |
| D5505 | VHDDAN202K/-1 | J | Diode | AB |
| D5513 | VHDDAN202K/-1 | J | Diode | AB |
| D5514 | RH-EX0516CEZZ | J | Zener Diode | AB |
| D5520 | VHDDAN202K/-1 | J | Diode | AB |
| D5521 | VHDDAN202K/-1 | J | Diode | AB |
| D5522 | VHDDAN202K/-1 | J | Diode | AB |
| D5523 | VHDDAN202K/-1 | J | Diode | AB |

### PACKAGED CIRCUIT

| | | | | |
|---|---|---|---|---|
| X5101 | RCRSB0286CEZZ | J | Crystal | AH |

### COILS

| | | | | |
|---|---|---|---|---|
| L1101 | VP-1M100J1R6N | J | Peaking 10µH | AC |
| L1201 | VP-1M100J1R6N | J | Peaking 10µH | AC |
| L1301 | VP-1M100J1R6N | J | Peaking 10µH | AC |
| L1302 | VP-NM100KR42N | J | Peaking 10µH | AB |

### CONTROLS

| | | | | |
|---|---|---|---|---|
| R1649 | RVR-M4846GEZZ | J | 220k (B) | AC |
| R1652 | RVR-M4846GEZZ | J | 220k (B) | AC |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C1010 | VCEAPF1EW336M | J | 33 | 25V | Electrolytic | AB |
| C1013 | RC-EZ1146CEZZ | J | 27 | 16V | Electrolytic | AG |
| C1101 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1102 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1103 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1104 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1105 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1106 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1107 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1108 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1109 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1110 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1112 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1113 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1114 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1115 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1116 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C1117 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1118 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1126 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1127 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1128 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1130 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1141 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1142 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1143 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1144 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1145 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1146 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1147 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1148 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1201 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1202 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1203 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1204 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1206 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1207 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1208 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1209 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1210 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1212 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1213 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1214 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1215 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1216 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C1217 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1218 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1219 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1225 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1226 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1227 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1228 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1229 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1241 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1242 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1243 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1244 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1245 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1247 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1301 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1302 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1303 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1304 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1305 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1306 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1307 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1308 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1309 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1310 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1312 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1313 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1314 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |

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## OUTPUT UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C1315 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1316 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C1317 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1318 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1325 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1326 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1327 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1328 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1340 | VCCCCY1HH471J | J | 470p | 50V | Ceramic | AA |
| C1341 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1342 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1343 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1344 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1345 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1346 | VCEAPF1AW476M | J | 47 | 10V | Electrolytic | AB |
| C1347 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1348 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1349 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1350 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1401 | RC-KZ0074TAZZ | J | 10 | 25V | Ceramic | AF |
| C1402 | RC-KZ0074TAZZ | J | 10 | 25V | Ceramic | AF |
| C1403 | RC-KZ0074TAZZ | J | 10 | 25V | Ceramic | AF |
| C1404 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1405 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1410 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1411 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1412 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1420 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1421 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1422 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1423 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1424 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1425 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1426 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1427 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C1429 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1430 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1431 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1432 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1433 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1434 | VCEAPF1EW226M | J | 22 | 25V | Electrolytic | AB |
| C1435 | VCEAPF1EW226M | J | 22 | 25V | Electrolytic | AB |
| C1436 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C1437 | VCEAPF0JW107M | J | 100 | 6.3V | Electrolytic | AC |
| C1438 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1453 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1460 | VCKYCY1HB102K | J | 1000p | 50V | Ceramic | AA |
| C1461 | VCEAPF1CW476M | J | 47 | 16V | Electrolytic | AC |
| C1462 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1463 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1464 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1465 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1466 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1467 | VCKYTV1CF105Z | J | 1.0 | 16V | Ceramic | AB |
| C1468 | VCFRED1HM822J | J | 8200p | 50V | Mylar | AD |
| C1469 | VCFYEC1CM334J | J | 0.33 | 16V | Mylar | AE |
| C1470 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C1471 | VCKYCY1CF154Z | J | 0.15 | 16V | Ceramic | AB |
| C1472 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1473 | VCE9PF1CW106M | J | 10 | 16V | Elect.(N.P) | AC |
| C1474 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C1475 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1476 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C1477 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1478 | VCEAPX1EW107M | J | 100 | 25V | Electrolytic | AD |
| C1479 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1480 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C1481 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C1482 | VCEAPF1EW336M | J | 33 | 25V | Electrolytic | AB |
| C1483 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1484 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C1485 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1486 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1487 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1488 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1489 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1490 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1491 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1492 | VCCCCY1HH100D | J | 10p | 50V | Ceramic | AA |
| C1493 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C1494 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C1495 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C1496 | VCCCCY1HH560J | J | 56p | 50V | Ceramic | AA |
| C1497 | VCCCCY1HH560J | J | 56p | 50V | Ceramic | AA |
| C1498 | VCCCCY1HH560J | J | 56p | 50V | Ceramic | AA |
| C1501 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1502 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1503 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1504 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1505 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1506 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1507 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1508 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1510 | VCCCCY1EH102J | J | 1000p | 25V | Ceramic | AB |
| C1511 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1541 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1542 | VCEAPF0JW107M | J | 100 | 6.3V | Electrolytic | AC |
| C1543 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C1544 | VCEAPX1EW107M | J | 100 | 25V | Electrolytic | AD |
| C1701 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C1708 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1709 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1710 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1714 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1715 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1716 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1718 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1719 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C1720 | VCCCCY1HH330J | J | 33p | 50V | Ceramic | AA |
| C4441 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5001 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5007 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5012 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5015 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C5016 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C5017 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C5033 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C5041 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5045 | VCEAPF0JW107M | J | 100 | 6.3V | Electrolytic | AC |
| C5046 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5055 | VCEAPF0JW226M | J | 22 | 6.3V | Electrolytic | AB |
| C5056 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C5057 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C5058 | VCEAPF0JW107M | J | 100 | 6.3V | Electrolytic | AC |
| C5063 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C5064 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5065 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5164 | VCCCCY1HH221J | J | 220p | 50V | Ceramic | AA |
| C5165 | VCKYCY1HB102K | J | 1000p | 50V | Ceramic | AA |
| C5167 | VCKYCY1HB102K | J | 1000p | 50V | Ceramic | AA |
| C5170 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5171 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5174 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5175 | RC-KZ0416CEZZ | J | 10 | 25V | Ceramic | AE |
| C5176 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5177 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5178 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C5179 | VCCCCY1HH220J | J | 22p | 50V | Ceramic | AA |
| C5507 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5508 | VCEAPF1CW476M | J | 47 | 16V | Electrolytic | AC |
| C5509 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5510 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C5511 | VCEAPF1EW336M | J | 33 | 25V | Electrolytic | AB |
| C5512 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C5513 | VCEAPF0JW107M | J | 100 | 6.3V | Electrolytic | AC |
| C5514 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |

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## OUTPUT UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C5515 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C5516 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5530 | VCEAPF1CW226M | J | 22 | 16V | Electrolytic | AB |
| C5531 | VCE9PF1CW336M | J | 33 | 16V | Elect.(N.P) | AD |
| C5534 | VCEAPF1CW226M | J | 22 | 16V | Electrolytic | AB |
| C5535 | VCEAPF1CW226M | J | 22 | 16V | Electrolytic | AB |
| C5553 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5554 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C5555 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C5556 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C5562 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C5564 | VCEAPF1CW226M | J | 22 | 16V | Electrolytic | AB |
| C5565 | VCEAPF1EW336M | J | 33 | 25V | Electrolytic | AB |
| C5566 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C5568 | VCEAPF1EW336M | J | 33 | 25V | Electrolytic | AB |
| C5569 | VCEAPF1CW107M | J | 100 | 16V | Electrolytic | AD |
| C5570 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R1003 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1015 | VRS-TX2HF000J | J | 0 | 1/2W | Metal Oxide | AA |
| R1016 | VRS-TX2HF000J | J | 0 | 1/2W | Metal Oxide | AA |
| R1018 | QFS-L5015CEZZ | J | | | Fuse Resistor | AD |
| R1065 | VRS-CY1JF153J | J | 15k | 1/16W | Metal Oxide | AA |
| R1066 | VRS-CY1JF432J | J | 4.3k | 1/16W | Metal Oxide | AA |
| R1067 | VRS-CY1JF682J | J | 6.8k | 1/16W | Metal Oxide | AA |
| R1071 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1081 | VRS-CY1JF203J | J | 20k | 1/16W | Metal Oxide | AA |
| R1082 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1083 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1084 | VRS-CY1JF203J | J | 20k | 1/16W | Metal Oxide | AA |
| R1085 | VRS-CY1JF153J | J | 15k | 1/16W | Metal Oxide | AA |
| R1086 | VRS-CY1JF432J | J | 4.3k | 1/16W | Metal Oxide | AA |
| R1087 | VRS-CY1JF682J | J | 6.8k | 1/16W | Metal Oxide | AA |
| R1088 | VRS-CY1JF682J | J | 6.8k | 1/16W | Metal Oxide | AA |
| R1089 | VRS-CY1JF432J | J | 4.3k | 1/16W | Metal Oxide | AA |
| R1090 | VRS-CY1JF153J | J | 15k | 1/16W | Metal Oxide | AA |
| R1093 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1094 | VRS-CY1JF203J | J | 20k | 1/16W | Metal Oxide | AA |
| R1095 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1102 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1105 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1108 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1109 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R1110 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R1113 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1115 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1116 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1117 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1118 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1119 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1120 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1123 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1124 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1125 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1126 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1127 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1128 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1129 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1130 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1131 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R1132 | VRS-CY1JF560J | J | 56 | 1/16W | Metal Oxide | AA |
| R1133 | VRS-CY1JF560J | J | 56 | 1/16W | Metal Oxide | AA |
| R1134 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1135 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1136 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1137 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1139 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1140 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1141 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1142 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1143 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1144 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1145 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1146 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1147 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1148 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1152 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1154 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1155 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1159 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1160 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1166 | VRS-TV1JD270J | J | 27 | 1/16W | Metal Oxide | AA |
| R1167 | VRS-CY1JF272J | J | 2.7k | 1/16W | Metal Oxide | AA |
| R1168 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R1171 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R1172 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R1173 | VRS-CY1JF3R3J | J | 3.3 | 1/16W | Metal Oxide | AA |
| R1174 | VRS-CY1JF3R3J | J | 3.3 | 1/16W | Metal Oxide | AA |
| R1175 | VRS-CY1JF3R3J | J | 3.3 | 1/16W | Metal Oxide | AA |
| R1176 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1179 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1180 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1181 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1193 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1194 | VRS-CY1JF470J | J | 47 | 1/16W | Metal Oxide | AA |
| R1201 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1202 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1206 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1209 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R1210 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R1214 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1215 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1216 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1218 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1219 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1220 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1223 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1224 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1225 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1226 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1227 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1228 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1229 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1230 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1231 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R1234 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1235 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1236 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1237 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1239 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1240 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R1241 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1242 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1243 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1244 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1245 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1246 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1247 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1248 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1249 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1254 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1255 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1256 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1259 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1261 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1262 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1271 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R1272 | VRS-CY1JF222J | J | 2.2k | 1/16W | Metal Oxide | AA |
| R1273 | VRS-CY1JF3R3J | J | 3.3 | 1/16W | Metal Oxide | AA |
| R1274 | VRS-CY1JF3R3J | J | 3.3 | 1/16W | Metal Oxide | AA |
| R1275 | VRS-CY1JF3R3J | J | 3.3 | 1/16W | Metal Oxide | AA |
| R1276 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1279 | VRS-CY1JF000J | J | 0 | 1/16W | Metal Oxide | AA |
| R1280 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R1281 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |

# DUNTKA694DE01/02
## OUTPUT UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| R1294 | VRS-CY1JF470J | J | 47 1/16W Metal Oxide | AA |
| R1301 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1302 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1306 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1309 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1310 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1313 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1314 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1315 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1316 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1318 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1319 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1320 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1323 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1324 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1325 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1326 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1327 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1328 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1329 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1330 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1331 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1332 | VRS-CY1JF560J | J | 56 1/16W Metal Oxide | AA |
| R1333 | VRS-CY1JF560J | J | 56 1/16W Metal Oxide | AA |
| R1334 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1335 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1336 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1337 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1339 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1340 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1341 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1342 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1343 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1344 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1345 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1346 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1347 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1348 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1349 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1354 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1355 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1356 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1359 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1361 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1362 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1366 | VRS-TV1JD270J | J | 27 1/16W Metal Oxide | AA |
| R1367 | VRS-CY1JF272J | J | 2.7k 1/16W Metal Oxide | AA |
| R1368 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R1371 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R1372 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R1373 | VRS-CY1JF3R3J | J | 3.3 1/16W Metal Oxide | AA |
| R1374 | VRS-CY1JF3R3J | J | 3.3 1/16W Metal Oxide | AA |
| R1375 | VRS-CY1JF3R3J | J | 3.3 1/16W Metal Oxide | AA |
| R1376 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1379 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1380 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1381 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1394 | VRS-CY1JF470J | J | 47 1/16W Metal Oxide | AA |
| R1401 | VRN-CY1JF560D | J | 56 1/16W Metal Film | AA |
| R1402 | VRN-CY1JF560D | J | 56 1/16W Metal Film | AA |
| R1403 | VRN-CY1JF560D | J | 56 1/16W Metal Film | AA |
| R1404 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1405 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1406 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1407 | VRS-CY1JF181J | J | 180 1/16W Metal Oxide | AA |
| R1408 | VRS-CY1JF181J | J | 180 1/16W Metal Oxide | AA |
| R1409 | VRS-CY1JF181J | J | 180 1/16W Metal Oxide | AA |
| R1412 | VRS-CY1JF332J | J | 3.3k 1/16W Metal Oxide | AA |
| R1413 | VRS-CY1JF332J | J | 3.3k 1/16W Metal Oxide | AA |
| R1414 | VRS-CY1JF332J | J | 3.3k 1/16W Metal Oxide | AA |
| R1415 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1416 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1417 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1418 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1419 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1420 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1421 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1422 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1423 | VRS-CY1JF272J | J | 2.7k 1/16W Metal Oxide | AA |
| R1424 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1425 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1426 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1427 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1428 | VRS-CY1JF470J | J | 47 1/16W Metal Oxide | AA |
| R1429 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1430 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1431 | VRS-TV1JD121J | J | 120 1/16W Metal Oxide | AA |
| R1432 | VRS-TV1JD121J | J | 120 1/16W Metal Oxide | AA |
| R1433 | VRS-CY1JF121J | J | 120 1/16W Metal Oxide | AA |
| R1434 | VRS-CY1JF121J | J | 120 1/16W Metal Oxide | AA |
| R1435 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1436 | VRS-CY1JF472J | J | 4.7k 1/16W Metal Oxide | AA |
| R1437 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1438 | VRS-CY1JF472J | J | 4.7k 1/16W Metal Oxide | AA |
| R1440 | VRS-CY1JF220F | J | 22 1/16W Metal Oxide | AA |
| R1441 | VRS-CY1JF220F | J | 22 1/16W Metal Oxide | AA |
| R1442 | VRS-CY1JF560J | J | 56 1/16W Metal Oxide | AA |
| R1443 | VRS-CY1JF560J | J | 56 1/16W Metal Oxide | AA |
| R1444 | VRS-CY1JF560J | J | 56 1/16W Metal Oxide | AA |
| R1447 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1448 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1449 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1450 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1451 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1452 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R1453 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1454 | VRS-CY1JF202J | J | 2.0k 1/16W Metal Oxide | AA |
| R1455 | VRS-CY1JF302J | J | 3.0k 1/16W Metal Oxide | AA |
| R1456 | VRS-CY1JF392J | J | 3.9k 1/16W Metal Oxide | AA |
| R1457 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1458 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1460 | VRS-CY1JF392J | J | 3.9k 1/16W Metal Oxide | AA |
| R1464 | VRS-CY1JF392J | J | 3.9k 1/16W Metal Oxide | AA |
| R1466 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1467 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1468 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1469 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1470 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1471 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1472 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1473 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1474 | VRS-CY1JF123F | J | 12k 1/16W Metal Oxide | AA |
| R1475 | VRS-CY1JF102F | J | 1.0k 1/16W Metal Oxide | AA |
| R1476 | VRS-CY1JF510F | J | 51 1/16W Metal Oxide | AA |
| R1477 | VRS-TX2HF000J | J | 0 1/2W Metal Oxide | AA |
| R1480 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1486 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1490 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1491 | VRS-CY1JF103J | J | 10k 1/16W Metal Oxide | AA |
| R1492 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R1493 | VRS-TX2HF5R6J | J | 5.6 1/2W Metal Oxide | AA |
| R1494 | VRS-CY1JF104J | J | 100k 1/16W Metal Oxide | AA |
| R1495 | VRS-CY1JF104J | J | 100k 1/16W Metal Oxide | AA |
| R1496 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1497 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1498 | VRS-CY1JF473J | J | 47k 1/16W Metal Oxide | AA |
| R1499 | VRS-CY1JF000J | J | 0 1/16W Metal Oxide | AA |
| R1501 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R1502 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1503 | VRS-CY1JF561J | J | 560 1/16W Metal Oxide | AA |
| R1504 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |
| R1505 | VRS-CY1JF471J | J | 470 1/16W Metal Oxide | AA |
| R1506 | VRS-CY1JF222J | J | 2.2k 1/16W Metal Oxide | AA |
| R1507 | VRS-CY1JF102J | J | 1.0k 1/16W Metal Oxide | AA |
| R1508 | VRS-CY1JF561J | J | 560 1/16W Metal Oxide | AA |
| R1509 | VRS-CY1JF101J | J | 100 1/16W Metal Oxide | AA |

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## OUTPUT UNIT (Continued)

| Ref. No. | Part No. | ★ | | Description | Code |
|---|---|---|---|---|---|
| R1510 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R1511 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1515 | VRS-TX2HF100J | J | 10 | 1/2W Metal Oxide | AA |
| R1517 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1518 | VRS-CY1JF272J | J | 2.7k | 1/16W Metal Oxide | AA |
| R1522 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1523 | VRS-CY1JF561J | J | 560 | 1/16W Metal Oxide | AA |
| R1524 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R1525 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R1526 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1527 | VRS-CY1JF821J | J | 820 | 1/16W Metal Oxide | AA |
| R1528 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1532 | VRS-CY1JF821J | J | 820 | 1/16W Metal Oxide | AA |
| R1533 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1534 | VRS-CY1JF152J | J | 1.5k | 1/16W Metal Oxide | AA |
| R1535 | VRS-CY1JF822J | J | 8.2k | 1/16W Metal Oxide | AA |
| R1536 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1537 | VRS-CY1JF821J | J | 820 | 1/16W Metal Oxide | AA |
| R1538 | VRS-CY1JF221J | J | 220 | 1/16W Metal Oxide | AA |
| R1539 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R1540 | VRS-CY1JF681J | J | 680 | 1/16W Metal Oxide | AA |
| R1541 | VRS-CY1JF221J | J | 220 | 1/16W Metal Oxide | AA |
| R1542 | VRS-CY1JF681J | J | 680 | 1/16W Metal Oxide | AA |
| R1543 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R1544 | VRS-CY1JF221J | J | 220 | 1/16W Metal Oxide | AA |
| R1545 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R1546 | VRS-CY1JF681J | J | 680 | 1/16W Metal Oxide | AA |
| R1549 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1550 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1551 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1557 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1558 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1559 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1561 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1562 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1563 | VRS-CY1JF682J | J | 6.8k | 1/16W Metal Oxide | AA |
| R1565 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R1566 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R1567 | VRN-CY1JF562D | J | 5.6k | 1/16W Metal Film | AB |
| R1568 | VRS-CY1JF470J | J | 47 | 1/16W Metal Oxide | AA |
| R1575 | VRS-CY1JF470J | J | 47 | 1/16W Metal Oxide | AA |
| R1576 | VRS-CY1JF470J | J | 47 | 1/16W Metal Oxide | AA |
| R1586 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1602 | VRS-CY1JF000J | J | 00 | 1/16W Metal Oxide | AA |
| R1606 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1607 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1608 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1609 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1610 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1611 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1612 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1613 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R1626 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1627 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1628 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1629 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1630 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1632 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1633 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1634 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1635 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1636 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1637 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1648 | VRS-TV1JD000J | J | 0 | 1/16W Metal Oxide | AA |
| R1650 | VRS-CY1JF183J | J | 18k | 1/16W Metal Oxide | AA |
| R1651 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1653 | VRS-CY1JF333J | J | 33k | 1/16W Metal Oxide | AA |
| R1654 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1657 | VRS-CY1JF393J | J | 39k | 1/16W Metal Oxide | AA |
| R1658 | VRS-CY1JF393J | J | 39k | 1/16W Metal Oxide | AA |
| R1701 | VRS-CB1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1705 | VRS-CB1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1709 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1711 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1713 | VRS-CB1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1717 | VRS-CB1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1721 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1723 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1725 | VRS-CB1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1729 | VRS-CB1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1733 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1735 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1740 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1741 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1742 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1743 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R1744 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1745 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1746 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1747 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1748 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1749 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R1750 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1751 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1752 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1753 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1754 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1755 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R1756 | VRS-CY1JF3R3J | J | 3.3 | 1/16W Metal Oxide | AA |
| R1757 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R1758 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1760 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R1761 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1762 | VRS-CY1JF153J | J | 15k | 1/16W Metal Oxide | AA |
| R1763 | VRS-CY1JF153J | J | 15k | 1/16W Metal Oxide | AA |
| R1764 | VRS-CY1JF153J | J | 15k | 1/16W Metal Oxide | AA |
| R1765 | VRS-CY1JF153J | J | 15k | 1/16W Metal Oxide | AA |
| R1766 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1767 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R1768 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R1769 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1770 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1771 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1772 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1773 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1774 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1775 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1776 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1777 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1778 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1779 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1780 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1781 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1782 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1783 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1784 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1785 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1786 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1787 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1788 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1789 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R1790 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5003 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5004 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5005 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5006 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5008 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5010 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5011 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5012 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5013 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5016 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5017 | VRS-TX2HF3R9J | J | 3.9 | 1/2W Metal Oxide | AB |
| R5018 | VRS-TX2HF3R9J | J | 3.9 | 1/2W Metal Oxide | AB |
| R5022 | VRS-TX2HF3R9J | J | 3.9 | 1/2W Metal Oxide | AB |
| R5023 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |

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## OUTPUT UNIT (Continued)

| Ref. No. | Part No. | ★ | | Description | Code |
|---|---|---|---|---|---|
| R5024 | VRS-TX2HF3R9J | J | 3.9 | 1/2W Metal Oxide | AB |
| R5031 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5032 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5035 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5036 | VRS-TW2ED470J | J | 47 | 1/4W Metal Oxide | AA |
| R5037 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5038 | VRS-TW2ED101J | J | 100 | 1/4W Metal Oxide | AA |
| R5039 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5040 | VRS-TW2ED221J | J | 220 | 1/4W Metal Oxide | AA |
| R5041 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5042 | VRS-TW2ED221J | J | 220 | 1/4W Metal Oxide | AA |
| R5043 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5044 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5045 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5046 | VRS-TW2ED221J | J | 220 | 1/4W Metal Oxide | AA |
| R5047 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5048 | VRS-TX2HF220J | J | 22 | 1/2W Metal Oxide | AB |
| R5053 | VRS-CA1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5055 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5074 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5075 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5076 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5081 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5082 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5084 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5093 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5099 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R5105 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5106 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5107 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5108 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5109 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5110 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5111 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5112 | VRS-TW2ED000J | J | 0 | 1/4W Metal Oxide | AB |
| R5113 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5114 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5121 | VRS-CY1JF272J | J | 2.7k | 1/16W Metal Oxide | AA |
| R5125 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5126 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5127 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5128 | VRS-CY1JF272J | J | 2.7k | 1/16W Metal Oxide | AA |
| R5129 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5130 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5133 | VRS-CY1JF272J | J | 2.7k | 1/16W Metal Oxide | AA |
| R5135 | VRS-CY1JF272J | J | 2.7k | 1/16W Metal Oxide | AA |
| R5140 | VRN-CY1JF682D | J | 6.8k | 1/16W Metal Film | AB |
| R5142 | VRN-CY1JF222D | J | 2.2k | 1/16W Metal Film | AB |
| R5146 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5147 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5150 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5151 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5152 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5153 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5155 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5157 | VRS-CY1JF272J | J | 2.7k | 1/16W Metal Oxide | AA |
| R5159 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5161 | VRS-CY1JF222J | J | 2.2k | 1/16W Metal Oxide | AA |
| R5162 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5163 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5164 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5165 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5167 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5168 | VRS-TV1JD000J | J | 0 | 1/16W Metal Oxide | AA |
| R5169 | VRS-TV1JD000J | J | 0 | 1/16W Metal Oxide | AA |
| R5170 | VRS-TV1JD000J | J | 0 | 1/16W Metal Oxide | AA |
| R5171 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5172 | VRS-CY1JF562J | J | 5.6k | 1/16W Metal Oxide | AA |
| R5173 | VRS-CY1JF562J | J | 5.6k | 1/16W Metal Oxide | AA |
| R5174 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5175 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5176 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5177 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5178 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5179 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5181 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5182 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5183 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5184 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5185 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5186 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5187 | VRS-CB1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5188 | VRS-CB1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5189 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5190 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5191 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5192 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5193 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5194 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5195 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5196 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5197 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5198 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5199 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5200 | VRS-CY1JF100J | J | 10 | 1/16W Metal Oxide | AA |
| R5201 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5202 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5204 | VRS-CY1JF332J | J | 3.3k | 1/16W Metal Oxide | AA |
| R5205 | VRS-CY1JF104J | J | 100k | 1/16W Metal Oxide | AA |
| R5206 | VRN-CY1JF123D | J | 12k | 1/16W Metal Film | AB |
| R5506 | VRS-TX2HF2R2J | J | 2.2 | 1/2W Metal Oxide | AB |
| R5507 | VRS-TX2HF2R2J | J | 2.2 | 1/2W Metal Oxide | AB |
| R5509 | VRS-CB1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5510 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5512 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5513 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5514 | VRS-TQ2BD000J | J | 0 | 1/8W Metal Oxide | AA |
| R5515 | VRS-TQ2BD000J | J | 0 | 1/8W Metal Oxide | AA |
| R5516 | VRS-TQ2BD000J | J | 0 | 1/8W Metal Oxide | AA |
| R5517 | VRS-TQ2BD000J | J | 0 | 1/8W Metal Oxide | AA |
| R5518 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5519 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5520 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5521 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5522 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5523 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5524 | VRS-CY1JF273J | J | 27k | 1/16W Metal Oxide | AA |
| R5525 | VRN-CY1JF183D | J | 18k | 1/16W Metal Film | AA |
| R5526 | VRS-CY1JF224J | J | 220k | 1/16W Metal Oxide | AA |
| R5527 | VRN-CY1JF362D | J | 3.6k | 1/16W Metal Film | AC |
| R5528 | VRS-CY1JF472J | J | 4.7k | 1/16W Metal Oxide | AA |
| R5529 | VRS-CY1JF392J | J | 3.9k | 1/16W Metal Oxide | AA |
| R5530 | VRS-CY1JF472J | J | 4.7k | 1/16W Metal Oxide | AA |
| R5536 | VRS-CY1JF821J | J | 820 | 1/16W Metal Oxide | AA |
| R5537 | VRS-CY1JF332J | J | 3.3k | 1/16W Metal Oxide | AA |
| R5538 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5539 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5540 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5544 | VRS-CY1JF512F | J | 5.1k | 1/16W Metal Oxide | AA |
| R5545 | VRS-CY1JF362F | J | 3.6k | 1/16W Metal Oxide | AA |
| R5546 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5547 | VRS-CY1JF000J | J | 0 | 1/16W Metal Oxide | AA |
| R5550 | VRS-CY1JF393J | J | 39k | 1/16W Metal Oxide | AA |
| R5551 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5552 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R5553 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R5554 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5555 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5557 | VRS-TV1JD000J | J | 0 | 1/16W Metal Oxide | AA |
| R5570 | VRS-CY1JF101J | J | 100 | 1/16W Metal Oxide | AA |
| R5571 | VRN-CY1JF273D | J | 27k | 1/16W Metal Film | AB |
| R5578 | VRS-CY1JF222F | J | 2.2k | 1/16W Metal Oxide | AA |
| R5579 | VRS-CY1JF153F | J | 15k | 1/16W Metal Oxide | AA |
| R5580 | VRS-CY1JF224F | J | 220k | 1/16W Metal Oxide | AA |
| R5590 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5592 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## DUNTKA694DE01/02
## OUTPUT UNIT (Continued)

| | | | | | |
|---|---|---|---|---|---|
| R5593 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5594 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5595 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5596 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5597 | VRS-CY1JF471J | J | 470 | 1/16W Metal Oxide | AA |
| R5598 | VRS-TX2HF2R2J | J | 2.2 | 1/2W Metal Oxide | AB |
| R5599 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5600 | VRS-CY1JF222F | J | 2.2k | 1/16W Metal Oxide | AA |
| R5601 | VRS-CY1JF183F | J | 18k | 1/16W Metal Oxide | AA |
| R5602 | VRS-CY1JF393F | J | 39k | 1/16W Metal Oxide | AA |
| R5603 | VRS-CY1JF472J | J | 4.7k | 1/16W Metal Oxide | AA |
| R5604 | VRS-TX2HF2R2J | J | 2.2 | 1/2W Metal Oxide | AB |
| R5619 | VRS-CY1JF682J | J | 6.8k | 1/16W Metal Oxide | AA |
| R5620 | VRS-CY1JF562J | J | 5.6k | 1/16W Metal Oxide | AA |
| R5621 | VRS-TX2HF2R2J | J | 2.2 | 1/2W Metal Oxide | AB |
| R5622 | VRS-TX2HF2R2J | J | 2.2 | 1/2W Metal Oxide | AB |
| R5623 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5624 | VRS-CY1JF153F | J | 15k | 1/16W Metal Oxide | AA |
| R5625 | VRS-CY1JF222F | J | 2.2k | 1/16W Metal Oxide | AA |
| R5626 | VRS-CY1JF683F | J | 68k | 1/16W Metal Oxide | AA |
| R5628 | VRS-CY1JF103J | J | 10k | 1/16W Metal Oxide | AA |
| R5629 | VRS-CY1JF223J | J | 22k | 1/16W Metal Oxide | AA |
| R5630 | VRS-CY1JF393J | J | 39k | 1/16W Metal Oxide | AA |
| R5631 | VRN-CY1JF272D | J | 2.7k | 1/16W Metal Film | AB |
| R5632 | VRN-CY1JF101D | J | 100 | 1/16W Metal Film | AB |
| R5636 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |
| R5637 | VRS-CY1JF102J | J | 1.0k | 1/16W Metal Oxide | AA |

### SWITCH

| | | | | |
|---|---|---|---|---|
| SW5101 | QSW-K0065GEZZ | J | Key Switch | AC |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| F1401 | QFS-L8012CEZZ | J | Fuse 0.8A | AF |
| F1601 | QFS-L8012CEZZ | J | Fuse 0.8A | AF |
| FB1101 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1102 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1104 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1105 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1107 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1108 | RBLN-0067CEZZ | J | Frrite Bead | AC |
| FB1109 | RBLN-0067CEZZ | J | Frrite Bead | AC |
| FB1201 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1202 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1204 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1205 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1206 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1301 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1302 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1304 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1305 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1306 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1401 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1402 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1405 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB1511 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5001 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB5101 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB5501 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB5502 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB5504 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5505 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5507 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB5508 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB5509 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB5510 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB5512 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5513 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5514 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5515 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5516 | RBLN-0067CEZZ | J | Frrite Bead | AC |
| FB5517 | RBLN-0067CEZZ | J | Frrite Bead | AC |
| FB5518 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5519 | RBLN-0065CEZZ | J | Frrite Bead | AB |
| FB5521 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| P5501 | QPLGN0174FJZZ | J | Plug 2-Pin | AC |
| P5502 | QPLGN0763TAZZ | J | Plug 7-Pin | AD |
| P5503 | QPLGN0264TAZZ | J | Plug 2-Pin | AC |
| P5504 | QPLGN0174FJZZ | J | Plug 2-Pin | AC |
| P5505 | QPLGN0176FJZZ | J | Plug 4-Pin | AD |
| P5506 | QPLGN0176FJZZ | J | Plug 4-Pin | AD |
| P5507 | QPLGN0364TAZZ | J | Plug 3-Pin | AC |
| P5508 | QPLGN0464TAZZ | J | Plug 8-Pin | AC |
| P5509 | QPLGN0436FJZZ | J | Plug 28-Pin | AE |
| P5510 | QPLGN0564TAZZ | J | Plug 5-Pin | AC |
| P5511 | QPLGN0175FJZZ | J | Plug 3-Pin | AD |
| SC1101 | QSOCN3071TAZZ | J | Socket 30-Pin (R) | AE |
| SC1201 | QSOCN3071TAZZ | J | Socket 30-Pin (G) | AE |
| SC1301 | QSOCN3071TAZZ | J | Socket 30-Pin (B) | AE |
| SC1404 | QCNCW6054TAZZ | J | Socket 60-Pin | AK |
| SC1405 | QCNCW6054TAZZ | J | Socket 60-Pin | AK |
| SC1501 | QSOCZ2058CEZZ | J | Socket 20-Pin | AG |
| SC1502 | QSOCZ2058CEZZ | J | Socket 20-Pin | AG |
| SC5001 | QSOCN1897REZZ | J | Socket 18-Pin | AE |
| SC5502 | QCNCW6054TAZZ | J | Socket 60-Pin | AK |
| RMC7502 | RRMCU0237CEZZ | J | R/C Receiver | AF |
| | PSLDC3076CEFN | J | Sheild | AE |

## DUNTK9769DE24/25
## VIDEO UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| IC6001 | VHiNJM2245M-1 | J | NJM2245M | AF |
| IC6004 | VHiMC141627-1 | J | MC141627FT | AY |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q6002 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q6003 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q6004 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q6008 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q6009 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q6010 | VS2SA1530AR-1 | J | 2SA1530AR | AB |
| Q6013 | VS2SC3928AR-1 | J | 2SC3928AR | AB |
| Q6015 | VSiMX2/////-1 | J | iMX2 | AB |

### DIODES

| | | | | |
|---|---|---|---|---|
| D6001 | RH-EX0226CEZZ | J | Zener Diode | AB |
| D6007 | VHDMA153///-1 | J | Diode | AB |
| D6009 | VHD1SS355//-1 | J | Diode | AB |
| D6010 | RH-EX0228CEZZ | J | Zener Diode | AB |

### FILTERS AND COILS

| | | | | |
|---|---|---|---|---|
| FL6002 | RFiLN0124GEZZ | J | Filter | AD |
| FL6003 | RFiLN0124GEZZ | J | Filter | AD |
| FL6004 | RFiLN0124GEZZ | J | Filter | AD |
| FL6005 | RFiLN0124GEZZ | J | Filter | AD |
| FL6006 | RFiLN0124GEZZ | J | Filter | AD |
| FL6011 | RCiLF0316CEZZ | J | Filter | AG |
| FL6012 | RCiLF0316CEZZ | J | Filter | AG |
| L6001 | VP-1M270J3R8N | J | Peaking 27µH | AC |
| L6002 | VP-1M330J4R2N | J | Peaking 33µH | AC |
| L6003 | VP-1M330J4R2N | J | Peaking 33µH | AC |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| C6001 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C6005 | VCEAPF1CW226M | J | 22 | 16V | Electrolytic | AB |
| C6013 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6014 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

# DUNTK9769DE24/25

## VIDEO UNIT (Continued)

| | | | | | | |
|---|---|---|---|---|---|---|
| C6015 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6016 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6017 | VCEAPF0JW476M | J | 47 | 6.3V | Electrolytic | AB |
| C6018 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6019 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C6020 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6021 | VCEAPF1CW106M | J | 10 | 16V | Electrolytic | AB |
| C6022 | VCEAPF1HW105M | J | 1.0 | 50V | Electrolytic | AB |
| C6023 | VCCCCY1HH270J | J | 27p | 50V | Ceramic | AA |
| C6024 | VCCCCY1HH270J | J | 27p | 50V | Ceramic | AA |
| C6025 | VCEAPF1CW226M | J | 22 | 16V | Electrolytic | AB |
| C6026 | VCCCCY1HH101J | J | 100p | 50V | Ceramic | AA |
| C6027 | VCE9PF1HW105M | J | 1.0 | 50V | Elect.(N.P) | AC |
| C6029 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C6030 | VCEAPF1HW105M | J | 1.0 | 50V | Electrolytic | AB |
| C6031 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6035 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6037 | VCEAPF0JW226M | J | 22 | 6.3V | Electrolytic | AB |
| C6038 | VCEAPF0JW226M | J | 22 | 6.3V | Electrolytic | AB |
| C6039 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C6040 | VCKYCY1EF104Z | J | 0.1 | 25V | Ceramic | AA |
| C6041 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6042 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6043 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |
| C6044 | VCKYCY1CF104Z | J | 0.1 | 16V | Ceramic | AA |
| C6045 | VCKYCY1HB103K | J | 0.01 | 50V | Ceramic | AA |

### RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| R6001 | VRS-CY1JF100J | J | 10 | 1/16W | Metal Oxide | AA |
| R6002 | VRS-TQ2BD750J | J | 75 | 1/8W | Metal Oxide | AA |
| R6003 | VRS-TQ2BD750J | J | 75 | 1/8W | Metal Oxide | AA |
| R6004 | VRS-CY1JF100J | J | 10 | 1/16W | Metal Oxide | AA |
| R6005 | VRS-TQ2BD750J | J | 75 | 1/8W | Metal Oxide | AA |
| R6006 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R6008 | VRS-CY1JF123J | J | 12k | 1/16W | Metal Oxide | AA |
| R6011 | VRS-CY1JF4R7J | J | 4.7 | 1/16W | Metal Oxide | AA |
| R6047 | VRS-CY1JF473J | J | 47k | 1/16W | Metal Oxide | AA |
| R6049 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R6050 | VRS-CY1JF560J | J | 56 | 1/16W | Metal Oxide | AA |
| R6051 | VRS-CY1JF473J | J | 47k | 1/16W | Metal Oxide | AA |
| R6052 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R6053 | VRS-CY1JF754J | J | 750k | 1/16W | Metal Oxide | AA |
| R6054 | VRS-CY1JF473J | J | 47k | 1/16W | Metal Oxide | AA |
| R6055 | VRS-CY1JF560J | J | 56 | 1/16W | Metal Oxide | AA |
| R6056 | VRS-TV1JD152J | J | 1.5k | 1/16W | Metal Oxide | AA |
| R6057 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R6058 | VRS-CY1JF273J | J | 27k | 1/16W | Metal Oxide | AA |
| R6059 | VRS-CY1JF273J | J | 27k | 1/16W | Metal Oxide | AA |
| R6060 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R6061 | VRS-CY1JF560J | J | 56 | 1/16W | Metal Oxide | AA |
| R6062 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R6063 | VRS-CY1JF393J | J | 39k | 1/16W | Metal Oxide | AA |
| R6064 | VRS-CY1JF393J | J | 39k | 1/16W | Metal Oxide | AA |
| R6069 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R6070 | VRS-CY1JF153J | J | 15k | 1/16W | Metal Oxide | AA |
| R6071 | VRS-CY1JF152J | J | 1.5k | 1/16W | Metal Oxide | AA |
| R6072 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R6073 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R6074 | VRS-CY1JF102J | J | 1.0k | 1/16W | Metal Oxide | AA |
| R6075 | VRS-CY1JF153J | J | 15k | 1/16W | Metal Oxide | AA |
| R6076 | VRS-CY1JF332J | J | 3.3k | 1/16W | Metal Oxide | AA |
| R6081 | VRS-CY1JF185J | J | 1.8M | 1/16W | Metal Oxide | AA |
| R6082 | VRS-CY1JF563J | J | 56k | 1/16W | Metal Oxide | AA |
| R6085 | VRS-CY1JF121J | J | 120 | 1/16W | Metal Oxide | AA |
| R6087 | VRS-TQ2BD000J | J | 0 | 1/8W | Metal Oxide | AA |
| R6088 | VRS-TQ2BD000J | J | 0 | 1/8W | Metal Oxide | AA |
| R6089 | VRS-CY1JF123J | J | 12k | 1/16W | Metal Oxide | AA |
| R6090 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |
| R6091 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R6092 | VRS-CY1JF224J | J | 220k | 1/16W | Metal Oxide | AA |
| R6094 | VRS-CY1JF392J | J | 3.9k | 1/16W | Metal Oxide | AA |
| R6095 | VRS-CY1JF103J | J | 10k | 1/16W | Metal Oxide | AA |
| R6096 | VRS-CY1JF101J | J | 100 | 1/16W | Metal Oxide | AA |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| FB6001 | RBLN-0067CEZZ | J | Frrite Bead | AC |
| FB6013 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB6014 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB6015 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB6016 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB6017 | RBLN-0059CEZZ | J | Frrite Bead | AB |
| FB6019 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB6020 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB6021 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| FB6022 | RBLN-0062CEZZ | J | Frrite Bead | AC |
| J6001 | QJAKG0049CEZZ | J | Jack (AV-In) | AH |
| J6003 | QSOCD0403GEZZ | J | Jack (S-Video-In) | AE |
| SC6001 | QSOCZ3043CEZZ | J | Socket 30-Pin (VS) | AG |
| | PSLDM4519CEFW | J | Sheild | AK |
| | QEARP0093CEFN | J | Sheild | AE |

# RUNTK0677CEZZ

## INLET UNIT

### PACKAGED CIRCUIT

| | | | | |
|---|---|---|---|---|
| ⚠ TNR761 | 9FJ0F20001280 | J | ENE471D10A | AD |

### COILS

| | | | | |
|---|---|---|---|---|
| ⚠ L761 | 9FJ0L05001460 | J | ADR18-03-030Y | AN |
| ⚠ L762 | 9FJ0L05001460 | J | ADR18-03-030Y | AN |
| L763 | 9FJ0L08001660 | J | AFP10-60-080 | AG |

### CAPACITORS

| | | | | | | |
|---|---|---|---|---|---|---|
| ⚠ C761 | 9FJ0C34001763 | J | 0.22 | 250V | M.Polyester | AF |
| ⚠ C762 | 9FJ0C51001223 | J | 1000p | 250V | Ceramic | AD |
| ⚠ C763 | 9FJ0C51001223 | J | 1000p | 250V | Ceramic | AD |
| ⚠ C764 | 9FJ0C34001753 | J | 0.1 | 250V | M.Polyester | AE |
| ⚠ C765 | 9FJ0C34001763 | J | 0.22 | 250V | M.Polyester | AF |
| ⚠ C766 | 9FJ0C34001763 | J | 0.22 | 250V | M.Polyester | AF |
| ⚠ C767 | 9FJ0C34001763 | J | 0.22 | 250V | M.Polyester | AF |

### RESISTOR

| | | | | |
|---|---|---|---|---|
| ⚠ R761 | 9FJ0R11002110 | J | 470k 1/2W | AC |

### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| ⚠ F761 | 9FJ0E02101020 | J | Fuse 5A 250V | AG |
| | 9FJ0G10003930 | J | Connector, 3-pin (PF) S2P3-VH | AD |

# RDENC0334CEZZ

## POWER UNIT

### INTEGRATED CIRCUITS

| | | | | |
|---|---|---|---|---|
| ⚠ IC701 | 9FJ0F01901370 | J | FA5332P | AW |
| ⚠ IC702 | 9FJ0F09001050 | J | FA5315P | AN |
| IC703 | 9FJ0F01102505 | J | HA17431VLPEL | AF |

### TRANSISTORS

| | | | | |
|---|---|---|---|---|
| Q701 | 9FJ0Q02001725 | J | 2SC4409 | AE |
| Q702 | 9FJ0Q11001592 | J | 2SK2837 | AU |
| Q703 | 9FJ0D40010160 | J | TF561S | AK |
| Q704 | 9FJ0Q11010692 | J | 2SK2605 | AR |
| Q705 | 9FJ0Q00001065 | J | 2SA1162YT | AC |

# RDENC0334CEZZ
## POWER UNIT(Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| **DIODES** | | | | |
| ⚠ D701 | 9FJ0D14000122 | J | Diode RBV-606 | AK |
| D702 | 9FJ0D01010035 | J | Diode TVR5JTPA | AC |
| D703 | 9FJ0D00001005 | J | Diode 1SS119T | AB |
| D704 | 9FJ0D01010035 | J | Diode TVR5JTPA | AC |
| D705 | 9FJ0D01010035 | J | Diode TVR5JTPA | AC |
| D706 | 9FJ0D01001555 | J | Diode AK03V0 | AD |
| D707 | 9FJ0D24001240 | J | Diode SF10L60U | AG |
| D708 | 9FJ0D01010035 | J | Diode TVR5JTPA | AC |
| D709 | 9FJ0D01010035 | J | Diode TVR5JTPA | AC |
| D710 | 9FJ0D01010035 | J | Diode TVR5JTPA | AC |
| D711 | 9FJ0D24001230 | J | Diode SF10SC6 | AK |
| D712 | 9FJ0D03001113 | J | Diode S3L20U | AG |
| D713 | 9FJ0D23010022 | J | Diode FMX12S | AH |
| ZD701 | 9FJ0D31181695 | J | Zener Diode RD24JSAB2TA | AC |
| ZD702 | 9FJ0D31181695 | J | Zener Diode RD24JSAB2TA | AC |
| ZD703 | 9FJ0D31181695 | J | Zener Diode RD24JSAB2TA | AC |
| ZD704 | 9FJ0D31181695 | J | Zener Diode RD24JSAB2TA | AC |
| ZD705 | 9FJ0D31110125 | J | Zener Diode RD5.1JSAB2TA | AD |
| **PACKAGED CIRCUITS** | | | | |
| ⚠ PC701 | 9FJ0F10010931 | J | Photo Coupler TLP721FD4GR | AG |
| ⚠ PC702 | 9FJ0F10010931 | J | Photo Coupler TLP721FD4GR | AG |
| ⚠ PC703 | 9FJ0F10010931 | J | Photo Coupler TLP721FD4GR | AG |
| **COILS AND TRANSFORMER** | | | | |
| L701 | 9FJ0L08001850 | J | Inductor THNW23-06251 | AY |
| L702 | 9FJ0L08001025 | J | Inductor B-01-AT | AC |
| L703 | 9FJ0L08001025 | J | Inductor B-01-AT | AC |
| L704 | 9FJ0L08001025 | J | Inductor B-01-AT | AC |
| ⚠ T701 | 9FJ0L00501170 | J | Transformer 050117 | AT |
| **CONTROL** | | | | |
| VR701 | 9FJ0R60001255 | J | 1k EVNDXAA03B13 | AE |
| **CAPACITORS** | | | | |
| C701 | 9FJ0C32410040 | J | 2.2 400V M.Polyester | AN |
| C702 | 9FJ0C50004335 | J | 0.22 25V Ceramic (Chip) | AD |
| C703 | 9FJ0C01401985 | J | 100 35V Electrolytic | AE |
| C704 | 9FJ0C01502455 | J | 22 50V Electrolytic | AC |
| C705 | 9FJ0C50003455 | J | 470p 1kV Ceramic | AK |
| C706 | 9FJ0C02801643 | J | 150 420V Electrolytic | AT |
| C707 | 9FJ0C50002015 | J | 0.01 50V Ceramic | AB |
| C708 | 9FJ0C50004365 | J | 0.15 25V Ceramic (Chip) | AC |
| C709 | 9FJ0C50004375 | J | 68p 50V Ceramic (Chip) | AC |
| C710 | 9FJ0C50011465 | J | 470p 50V Ceramic (Chip) | AC |
| C711 | 9FJ0C50002635 | J | 0.047 50V Ceramic | AC |
| C712 | 9FJ0C50011465 | J | 470p 50V Ceramic (Chip) | AC |
| C713 | 9FJ0C50002015 | J | 0.01 50V Ceramic | AB |
| C714 | 9FJ0C50004365 | J | 0.15 25V Ceramic (Chip) | AC |
| ⚠ C716 | 9FJ0C51001223 | J | 1000p 4kV Ceramic | AD |
| C717 | 9FJ0C50002015 | J | 0.01 50V Ceramic | AB |
| C718 | 9FJ0C21201035 | J | 4700p 200V Ceramic | AF |
| C719 | 9FJ0C50010715 | J | 220p 1kV Ceramic | AD |
| C720 | 9FJ0C50004325 | J | 0.22 16V Ceramic (Chip) | AD |
| C721 | 9FJ0C50011465 | J | 470p 50V Ceramic (Chip) | AC |
| C722 | 9FJ0C50002635 | J | 0.047 50V Ceramic | AC |
| C723 | 9FJ0C50002635 | J | 0.047 50V Ceramic | AC |
| C724 | 9FJ0C01401635 | J | 47 35V Electrolytic | AD |
| C725 | 9FJ0C50002985 | J | 1000p 500V Ceramic | AD |
| C726 | 9FJ0C01102040 | J | 1000 10V Electrolytic | AF |
| C727 | 9FJ0C01102040 | J | 1000 10V Electrolytic | AF |
| C728 | 9FJ0C50003745 | J | 0.1 50V Ceramic (Chip) | AC |
| C729 | 9FJ0C50002985 | J | 1000p 500V Ceramic | AD |
| C730 | 9FJ0C01302155 | J | 220 25V Electrolytic | AE |
| C731 | 9FJ0C01302140 | J | 470 25V Electrolytic | AF |
| ⚠ C732 | 9FJ0C51001223 | J | 1000p 4kV Ceramic | AD |
| C733 | 9FJ0C50004335 | J | 0.22 25V Ceramic (Chip) | AD |
| C734 | 9FJ0C01510195 | J | 3.3 50V Electrolytic | AD |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| **RESISTORS** | | | | |
| R701 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| R702 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| R703 | 9FJ0R91201445 | J | 47k 1/10W Chip | AB |
| R704 | 9FJ0R94201005 | J | 10 1/2W Chip | AC |
| R705 | 9FJ0R17070491 | J | 10 2W Metal Oxide | AC |
| R706 | 9FJ0R70010070 | J | 10 5W Cement | AH |
| R707 | 9FJ0R22110330 | J | 0.1 5W Cement | AF |
| R708 | 9FJ0R94201305 | J | 3.3k 1/2W Chip | AD |
| R709 | 9FJ0R91201245 | J | 1k 1/10W Chip | AB |
| R710 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R711 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R712 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R713 | 9FJ0R91501025 | J | 8.2k 1/10W Chip | AB |
| R714 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R715 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R716 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R718 | 9FJ0R91501005 | J | 5.6k 1/10W Chip | AB |
| R719 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R720 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R721 | 9FJ0R91501065 | J | 470k 1/10W Chip | AB |
| R722 | 9FJ0R91501005 | J | 5.6k 1/10W Chip | AB |
| R723 | 9FJ0R91201505 | J | 150k 1/10W Chip | AB |
| R724 | 9FJ0R91201425 | J | 33k 1/10W Chip | AB |
| R725 | 9FJ0R91201455 | J | 56k 1/10W Chip | AB |
| R726 | 9FJ0R91201365 | J | 10k 1/10W Chip | AB |
| R727 | 9FJ0R91201055 | J | 27 1/10W Chip | AB |
| R728 | 9FJ0R91201405 | J | 22k 1/10W Chip | AB |
| R729 | 9FJ0R91201485 | J | 100k 1/10W Chip | AB |
| R730 | 9FJ0R92201115 | J | 82 1/8W Chip | AB |
| R731 | 9FJ0R91201005 | J | 10 1/10W Chip | AB |
| R733 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| R734 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| R735 | 9FJ0R91201445 | J | 47k 1/10W Chip | AB |
| R736 | 9FJ0R91201665 | J | 5.1k 1/10W Chip | AB |
| R737 | 9FJ0R91201245 | J | 1k 1/10W Chip | AB |
| R738 | 9FJ0R91201105 | J | 68 1/10W Chip | AB |
| R739 | 9FJ0R91201005 | J | 10 1/10W Chip | AB |
| R740 | 9FJ0R93201125 | J | 100 1/4W Chip | AC |
| R741 | 9FJ0R93201005 | J | 10 1/4W Chip | AB |
| R742 | 9FJ0R91201365 | J | 10k 1/10W Chip | AB |
| R743 | 9FJ0R94001095 | J | 0.22 1/2W Chip | AG |
| R744 | 9FJ0R17071411 | J | 68k 2W Metal Oxide | AD |
| R745 | 9FJ0R91201245 | J | 1k 1/10W Chip | AB |
| R746 | 9FJ0R91201165 | J | 220 1/10W Chip | AB |
| R747 | 9FJ0R91201665 | J | 5.1k 1/10W Chip | AB |
| R748 | 9FJ0R91201305 | J | 3.3k 1/10W Chip | AB |
| R749 | 9FJ0R91201305 | J | 3.3k 1/10W Chip | AB |
| R750 | 9FJ0R91201125 | J | 100 1/10W Chip | AB |
| R753 | 9FJ0R94201305 | J | 3.3k 1/2W Chip | AD |
| R754 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| R755 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| R756 | 9FJ0R16080255 | J | 1 1W Metal Oxide | AC |
| R757 | 9FJ0R94201285 | J | 2.2k 1/2W Chip | AD |
| R758 | 9FJ0R91201285 | J | 2.2k 1/10W Chip | AB |
| R759 | 9FJ0R91201265 | J | 1.5k 1/10W Chip | AB |
| R770 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| R771 | 9FJ0R94201715 | J | 9.1k 1/2W Chip | AB |
| **MISCELLANEOUS PARTS** | | | | |
| TF701 | 9FJ0E03010060 | J | Fuse P125A | AG |
| | 9FJ0G10001750 | J | Connector (PA) B2P3-VH | AE |
| | 9FJ0I10007550 | J | Harness (PL) | AN |
| | 9FJ0I10007570 | J | Harness (E) | BB |
| | 9FJ0O00002510 | J | Heat Sink | AK |
| | 9FJ0O00002520 | J | Heat Sink | AP |

# CPCi-0047CE15/16
## PC I/F UNIT

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| **INTEGRATED CIRCUITS** | | | | |
| IC8001 | RH-iX3270CEZZ | J | HD6417709 | BH |
| IC8003 | 9DK001-11020 | J | AT24C128N-10SC-1.8 | AS |
| IC8006 | 9DK001-12055 | J | TC7WH241FU | AN |
| IC8007 | 9DK001-15061 | J | PST600IM | AL |
| IC8019 | 9DK001-15060 | J | PST623XW | AP |
| IC8020 | RH-iX3460CEZZQ | J | GMZ2A | BP |
| IC8022 | 9DK001-12086 | J | 74VHCT244AMT | AL |
| IC8024 | 9DK001-15053 | J | TL431CPS | AL |
| IC8025 | RH-iX3249CEN1 | J | MB87J1101 | BT |
| IC8027 | RH-iXA152WJZZQ | J | LH28F320BFE | BD |
| IC8028 | 9DK001-11027 | J | MSM51V18165F-60TS-K | |
| IC8029 | RH-iX3250CEZZ | J | MB87J1110 | BW |
| IC8035 | 9DK001-11021 | J | NT56V1616A0T-7 | BB |
| IC8038 | 9DK001-11021 | J | NT56V1616A0T-7 | BB |
| IC8039 | 9DK001-11021 | J | NT56V1616A0T-7 | BB |
| IC8046 | 9DK001-11021 | J | NT56V1616A0T-7 | BB |
| IC8048 | RH-iX3293CEZZ | J | MBCG61394-106 | BC |
| IC8051 | 9DK001-15091 | J | CXD2309AQ | BB |
| IC8052 | 9DK001-12055 | J | TC7WH241FU | AN |
| IC8053 | 9DK001-12057 | J | TC74LVX86FT | AM |
| IC8056 | 9DK001-12058 | J | HD74LVC00T | AK |
| IC8600 | 9DK001-12068 | J | SN74F153DB | AM |
| IC8601 | 9DK001-20026 | J | UPA103G | BA |
| IC8603 | 9DK001-15038 | J | PQ05TZ11 | AR |
| IC8604 | 9DK001-15112 | J | PQ033EZ01 | |
| IC8606 | 9DK001-15103 | J | CXA3516AR | BR |
| IC8607 | 9DK001-12070 | J | HD74HCT125T | AL |
| IC8608 | 9DK001-12055 | J | TC7WH241FU | AN |
| IC8609 | RH-iX3399CEN1Q | J | IX3399CEN1 | BM |
| IC8610 | 9DK001-12068 | J | SN74F153DB | AM |
| IC8611 | 9DK001-15087 | J | NJM2137V | AS |
| **TRANSISTOR** | | | | |
| Q8012 | 9DK001-20025 | J | IMB3A | AE |
| **DIODES** | | | | |
| D8001 | 9DK001-30001 | J | 1SS193 | AC |
| D8002 | 9DK001-30001 | J | 1SS193 | AC |
| D8003 | 9DK001-30001 | J | 1SS193 | AC |
| D8004 | 9DK001-30001 | J | 1SS193 | AC |
| D8600 | 9DK001-30013 | J | 1SS362 | AD |
| D8601 | 9DK001-30018 | J | 1SS187 | AD |
| D8602 | 9DK001-30018 | J | 1SS187 | AD |
| **PACKAGED CIRCUITS** | | | | |
| X8001 | 9DK001-80012 | J | Crystal, 6MHz | AN |
| X8003 | 9DK001-80011 | J | Crystal, 1.8432MHz | AS |
| X8004 | 9DK001-80013 | J | Crystal, 22.165MHz | AN |
| X8005 | 9DK001-80023 | J | Crystal, 18.75MHz | AR |
| **FILTERS** | | | | |
| FL8002 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8003 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8005 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8006 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8021 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8022 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8023 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8026 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8027 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8028 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8032 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8034 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8037 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8039 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8041 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8048 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8049 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8051 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8053 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8054 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8056 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8057 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8058 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8600 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8601 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8602 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8603 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8604 | 9DK001-82026 | J | Filter, STS104B | AG |
| FL8606 | 9DK001-82026 | J | Filter, STS104B | AG |
| **COILS** | | | | |
| L8600 | 9DK001-81052 | J | Coil, 3.3µH | AG |
| L8601 | 9DK001-81052 | J | Coil, 3.3µH | AG |
| L8602 | 9DK001-81052 | J | Coil, 3.3µH | AG |
| L8603 | 9DK001-81052 | J | Coil, 3.3µH | AG |
| L8604 | 9DK001-81050 | J | Coil, 68µH | AG |

**CAPACITORS**

| | | | | | |
|---|---|---|---|---|---|
| C8001 | 9DK001-42094 | J | 0.1 | 25V Ceramic | AC |
| C8002 | 9DK001-42094 | J | 0.1 | 25V Ceramic | AC |
| C8006 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8009 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8012 | 9DK001-42103 | J | 15p | 50V Ceramic | AC |
| C8013 | 9DK001-42103 | J | 15p | 50V Ceramic | AC |
| C8019 | 9DK001-42104 | J | 470p | 50V Ceramic | AC |
| C8020 | 9DK001-42104 | J | 470p | 50V Ceramic | AC |
| C8021 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8022 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8026 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8028 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8029 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8030 | 9DK001-42105 | J | 0.047 | 50V Ceramic | AC |
| C8031 | 9DK001-42094 | J | 0.1 | 25V Ceramic | AC |
| C8035 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8039 | 9DK001-42094 | J | 0.1 | 25V Ceramic | AC |
| C8042 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8043 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8052 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8053 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8170 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8176 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8177 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8178 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8181 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8182 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8185 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8190 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8191 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8192 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8196 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8198 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8207 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8211 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8213 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8216 | 9DK001-42103 | J | 15p | 50V Ceramic | AC |
| C8217 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8220 | 9DK001-42103 | J | 15p | 50V Ceramic | AC |
| C8223 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8225 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8228 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8230 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8231 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8233 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8247 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8250 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8252 | 9DK001-40080 | J | 100 | 6.3V Electrolytic | AF |
| C8255 | 9DK001-40092 | J | 220 | 4V Electrolytic | AF |
| C8257 | 9DK001-40080 | J | 100 | 6.3V Electrolytic | AF |
| C8259 | 9DK001-42103 | J | 15p | 50V Ceramic | AC |
| C8265 | 9DK001-42103 | J | 15p | 50V Ceramic | AC |
| C8266 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8268 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |
| C8273 | 9DK001-42096 | J | 0.01 | 50V Ceramic | AC |

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## PC I/F UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| C8281 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8283 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8284 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8285 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8297 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8301 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8305 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8309 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8317 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8325 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8328 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8329 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8330 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8332 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8336 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8340 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8341 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8342 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8343 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8344 | 9DK001-40077 | J | 10 | 16V | Electrolytic | AF |
| C8345 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8349 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8355 | 9DK001-42101 | J | 220p | 50V | Ceramic | AC |
| C8361 | 9DK001-40089 | J | 47 | 6.3V | Electrolytic | AE |
| C8366 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8367 | 9DK001-40092 | J | 220 | 4V | Electrolytic | AF |
| C8368 | 9DK001-40090 | J | 47 | 4V | Electrolytic | AF |
| C8369 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8370 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8371 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8372 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8373 | 9DK001-40090 | J | 47 | 4V | Electrolytic | AF |
| C8374 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8375 | 9DK001-40092 | J | 220 | 4V | Electrolytic | AF |
| C8376 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8378 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8379 | 9DK001-40080 | J | 100 | 6.3V | Electrolytic | AF |
| C8425 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8432 | 9DK001-42103 | J | 15p | 50V | Ceramic | AC |
| C8460 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8470 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8471 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8472 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8600 | 9DK001-40089 | J | 47 | 6.3V | Electrolytic | AE |
| C8602 | 9DK001-42113 | J | 4.7 | 10V | Ceramic | AB |
| C8603 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8604 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8605 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8606 | 9DK001-42108 | J | 5p | 50V | Ceramic | AB |
| C8607 | 9DK001-42108 | J | 5p | 50V | Ceramic | AB |
| C8608 | 9DK001-40079 | J | 47 | 16V | Electrolytic | AG |
| C8609 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8610 | 9DK001-40079 | J | 47 | 16V | Electrolytic | AG |
| C8611 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8612 | 9DK001-40079 | J | 47 | 16V | Electrolytic | AG |
| C8613 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8614 | 9DK001-40079 | J | 47 | 16V | Electrolytic | AG |
| C8615 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8616 | 9DK001-43018 | J | 10 | 16V | Tantalum | AH |
| C8617 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8618 | 9DK001-40079 | J | 47 | 16V | Electrolytic | AG |
| C8619 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8620 | 9DK001-43018 | J | 10 | 16V | Tantalum | AH |
| C8621 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8623 | 9DK001-43018 | J | 10 | 16V | Tantalum | AH |
| C8624 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8625 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8626 | 9DK001-40079 | J | 47 | 16V | Electrolytic | AG |
| C8627 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8628 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8630 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8631 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8632 | 9DK001-42125 | J | 0.068 | 16V | Film | AM |
| C8633 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8634 | 9DK001-42124 | J | 680p | 25V | Ceramic | AC |
| C8635 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8636 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8637 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8638 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8640 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8641 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8642 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8645 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8646 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8647 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8648 | 9DK001-40079 | J | 47 | 16V | Electrolytic | AG |
| C8649 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8650 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8651 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8652 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8653 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8654 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |
| C8656 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8657 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8662 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8663 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8664 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8672 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8674 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8677 | 9DK001-42129 | J | 0.01 | 16V | Film | AL |
| C8678 | 9DK001-40090 | J | 47 | 4V | Electrolytic | AF |
| C8679 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8684 | 9DK001-40089 | J | 47 | 6.3V | Electrolytic | AE |
| C8685 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8692 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8694 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8695 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8698 | 9DK001-42096 | J | 0.01 | 50V | Ceramic | AC |
| C8701 | 9DK001-40091 | J | 100 | 4V | Electrolytic | AF |
| C8702 | 9DK001-43018 | J | 10 | 16V | Tantalum | AH |
| C8703 | 9DK001-43018 | J | 10 | 16V | Tantalum | AH |
| C8704 | 9DK001-43018 | J | 10 | 16V | Tantalum | AH |
| C8705 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8707 | 9DK001-42094 | J | 0.1 | 25V | Ceramic | AC |
| C8708 | 9DK001-42099 | J | 100p | 50V | Ceramic | AC |
| C8720 | 9DK001-42116 | J | 10p | 50V | Ceramic | AC |
| C8721 | 9DK001-42116 | J | 10p | 50V | Ceramic | AC |
| C8722 | 9DK001-42116 | J | 10p | 50V | Ceramic | AC |
| C8723 | 9DK001-42116 | J | 10p | 50V | Ceramic | AC |
| C8724 | 9DK001-42116 | J | 10p | 50V | Ceramic | AC |
| C8725 | 9DK001-42116 | J | 10p | 50V | Ceramic | AC |
| C8729 | 9DK001-42111 | J | 1 | 10V | Ceramic | AB |

## RESISTORS

| | | | | | | |
|---|---|---|---|---|---|---|
| FL8001 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8024 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8025 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8033 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8038 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8043 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8044 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8045 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| FL8605 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| R8001 | 9DK001-50165 | J | 100 | 1/16W | Chip1608 | AA |
| R8002 | 9DK001-50165 | J | 100 | 1/16W | Chip1608 | AA |
| R8003 | 9DK001-50165 | J | 100 | 1/16W | Chip1608 | AA |
| R8004 | 9DK001-50165 | J | 100 | 1/16W | Chip1608 | AA |
| R8005 | 9DK001-50163 | J | 68 | 1/16W | Chip1608 | AA |
| R8006 | 9DK001-51030 | J | 10k | 1/16W | Resistor Array | AD |
| R8007 | 9DK001-50209 | J | 27k | 1/16W | Chip1608 | AA |
| R8009 | 9DK001-50204 | J | 150 | 1/16W | Chip1608 | AA |
| R8010 | 9DK001-51030 | J | 10k | 1/16W | Resistor Array | AD |
| R8011 | 9DK001-51030 | J | 10k | 1/16W | Resistor Array | AD |
| R8012 | 9DK001-50207 | J | 6.8k | 1/16W | Chip1608 | AA |
| R8013 | 9DK001-50207 | J | 6.8k | 1/16W | Chip1608 | AA |
| R8014 | 9DK001-51030 | J | 10k | 1/16W | Resistor Array | AD |

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## PC I/F UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| R8015 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8016 | 9DK001-50222 | J | 1.3k 1/16W Chip1608 | AB |
| R8018 | 9DK001-50199 | J | 2.15k1/16W Chip1608 | AB |
| R8019 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8022 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8023 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8027 | 9DK001-50209 | J | 27k 1/16W Chip1608 | AA |
| R8028 | 9DK001-50183 | J | 4.7k 1/16W Chip1608 | AA |
| R8033 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8034 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8035 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8036 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8040 | 9DK001-50163 | J | 68 1/16W Chip1608 | AA |
| R8043 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8044 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8050 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8051 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8057 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8058 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8061 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8065 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8066 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8071 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8072 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8097 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8100 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8104 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8105 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8107 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8114 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8116 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8117 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8155 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8156 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8157 | 9DK001-50167 | J | 180 1/16W Chip1608 | AA |
| R8158 | 9DK001-50163 | J | 68 1/16W Chip1608 | AA |
| R8159 | 9DK001-50167 | J | 180 1/16W Chip1608 | AA |
| R8160 | 9DK001-50163 | J | 68 1/16W Chip1608 | AA |
| R8162 | 9DK001-50163 | J | 68 1/16W Chip1608 | AA |
| R8164 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8167 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8168 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8169 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8170 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8172 | 9DK001-50201 | J | 15 1/16W Chip1608 | AA |
| R8176 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8180 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8181 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8182 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8183 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8185 | 9DK001-50165 | J | 100 1/16W Chip1608 | AA |
| R8186 | 9DK001-50204 | J | 150 1/16W Chip1608 | AA |
| R8187 | 9DK001-50203 | J | 62 1/16W Chip1608 | AA |
| R8191 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8193 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8194 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8195 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8197 | 9DK001-50190 | J | 1M 1/16W Chip1608 | AA |
| R8202 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8203 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8204 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8205 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8206 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8207 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8209 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8210 | 9DK001-50173 | J | 470 1/16W Chip1608 | AA |
| R8211 | 9DK001-50205 | J | 1.8k 1/16W Chip1608 | AA |
| R8215 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8216 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8217 | 9DK001-50149 | J | 0 1/16W Chip1608 | AB |
| R8218 | 9DK001-50164 | J | 82 1/16W Chip1608 | AA |
| R8219 | 9DK001-50165 | J | 100 1/16W Chip1608 | AA |
| R8220 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8221 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8222 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8223 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8224 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8227 | 9DK001-50190 | J | 1M 1/16W Chip1608 | AA |
| R8228 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8229 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8230 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8231 | 9DK001-50165 | J | 100 1/16W Chip1608 | AA |
| R8232 | 9DK001-50203 | J | 62 1/16W Chip1608 | AA |
| R8233 | 9DK001-50204 | J | 150 1/16W Chip1608 | AA |
| R8239 | 9DK001-50169 | J | 220 1/16W Chip1608 | AA |
| R8240 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8246 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8251 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8252 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8253 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8254 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8255 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8257 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8264 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8267 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8272 | 9DK001-50263 | J | 1k 1/4W Chip3216 | AB |
| R8276 | 9DK001-50155 | J | 3k 1/16W Chip1608 | AB |
| R8278 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8280 | 9DK001-50165 | J | 100 1/16W Chip1608 | AA |
| R8281 | 9DK001-50222 | J | 1.3k 1/16W Chip1608 | AB |
| R8282 | 9DK001-50165 | J | 100 1/16W Chip1608 | AA |
| R8289 | 9DK001-50207 | J | 6.8k 1/16W Chip1608 | AA |
| R8290 | 9DK001-50165 | J | 100 1/16W Chip1608 | AA |
| R8295 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8297 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8298 | 9DK001-51030 | J | 10k 1/16W Resistor Array | AD |
| R8299 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8300 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8301 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8302 | 9DK001-50264 | J | 680 1/16W Chip1608 | AD |
| R8304 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8305 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8307 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8309 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8316 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8317 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8318 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8319 | 9DK001-50169 | J | 220 1/16W Chip1608 | AA |
| R8321 | 9DK001-50173 | J | 470 1/16W Chip1608 | AA |
| R8322 | 9DK001-50205 | J | 1.8k 1/16W Chip1608 | AA |
| R8323 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8325 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8326 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8327 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8328 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8329 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8330 | 9DK001-50165 | J | 100 1/16W Chip1608 | AA |
| R8339 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8340 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8341 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8342 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |
| R8343 | 9DK001-50159 | J | 22 1/16W Chip1608 | AA |
| R8344 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8345 | 9DK001-50185 | J | 10k 1/16W Chip1608 | AA |
| R8348 | 9DK001-50149 | J | 0 1/16W Chip1608 | AB |
| R8353 | 9DK001-50149 | J | 0 1/16W Chip1608 | AB |
| R8362 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8363 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8364 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8365 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8366 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8367 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8368 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8369 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8370 | 9DK001-50162 | J | 56 1/16W Chip1608 | AA |
| R8447 | 9DK001-50150 | J | 10 1/16W Chip1608 | AA |

# CPCi-0047CE15/16

## PC I/F UNIT (Continued)

| Ref. No. | Part No. | ★ | Description | | | Code |
|---|---|---|---|---|---|---|
| R8448 | 9DK001-50150 | J | 10 | 1/16W | Chip1608 | AA |
| R8456 | 9DK001-50185 | J | 10k | 1/16W | Chip1608 | AA |
| R8465 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| R8466 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| R8471 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| R8472 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| R8481 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8482 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8489 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8600 | 9DK001-50185 | J | 10k | 1/16W | Chip1608 | AA |
| R8601 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| R8603 | 9DK001-50216 | J | 360 | 1/16W | Chip1608 | AA |
| R8604 | 9DK001-50162 | J | 56 | 1/16W | Chip1608 | AA |
| R8605 | 9DK001-50165 | J | 100 | 1/16W | Chip1608 | AA |
| R8606 | 9DK001-50163 | J | 68 | 1/16W | Chip1608 | AA |
| R8607 | 9DK001-50185 | J | 10k | 1/16W | Chip1608 | AA |
| R8608 | 9DK001-50161 | J | 47 | 1/16W | Chip1608 | AA |
| R8609 | 9DK001-50161 | J | 47 | 1/16W | Chip1608 | AA |
| R8610 | 9DK001-50165 | J | 100 | 1/16W | Chip1608 | AA |
| R8611 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8612 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8613 | 9DK001-50204 | J | 150 | 1/16W | Chip1608 | AA |
| R8614 | 9DK001-50204 | J | 150 | 1/16W | Chip1608 | AA |
| R8615 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8616 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8618 | 9DK001-50251 | J | 47 | 1/4W | Chip3216 | AB |
| R8619 | 9DK001-50251 | J | 47 | 1/4W | Chip3216 | AB |
| R8620 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8621 | 9DK001-50203 | J | 62 | 1/16W | Chip1608 | AA |
| R8622 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8623 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8624 | 9DK001-50203 | J | 62 | 1/16W | Chip1608 | AA |
| R8625 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8626 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8627 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8628 | 9DK001-50203 | J | 62 | 1/16W | Chip1608 | AA |
| R8632 | 9DK001-50155 | J | 3k | 1/16W | Chip1608 | AB |
| R8634 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8635 | 9DK001-50155 | J | 3k | 1/16W | Chip1608 | AB |
| R8640 | 9DK001-50210 | J | 33k | 1/16W | Chip1608 | AA |
| R8641 | 9DK001-50210 | J | 33k | 1/16W | Chip1608 | AA |
| R8642 | 9DK001-50150 | J | 10 | 1/16W | Chip1608 | AA |
| R8643 | 9DK001-50150 | J | 10 | 1/16W | Chip1608 | AA |
| R8644 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8645 | 9DK001-50185 | J | 10k | 1/16W | Chip1608 | AA |
| R8648 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8649 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8650 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8651 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8654 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8655 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8672 | 9DK001-50185 | J | 10k | 1/16W | Chip1608 | AA |
| R8673 | 9DK001-50257 | J | 75 | 1/16W | Chip1608 | AA |
| R8674 | 9DK001-50218 | J | 20k | 1/16W | Chip1608 | AA |
| R8675 | 9DK001-50150 | J | 10 | 1/16W | Chip1608 | AA |
| R8680 | 9DK001-50185 | J | 10k | 1/16W | Chip1608 | AA |
| R8683 | 9DK001-50266 | J | 13 | 1/10W | Chip2125 | AA |
| R8684 | 9DK001-50266 | J | 13 | 1/10W | Chip2125 | AA |
| R8685 | 9DK001-50266 | J | 13 | 1/10W | Chip2125 | AA |
| R8687 | 9DK001-50159 | J | 22 | 1/16W | Chip1608 | AA |
| R8688 | 9DK001-50176 | J | 820 | 1/16W | Chip1608 | AA |
| R8690 | 9DK001-50177 | J | 1k | 1/16W | Chip1608 | AA |
| R8691 | 9DK001-50177 | J | 1k | 1/16W | Chip1608 | AA |
| R8695 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8697 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |
| R8699 | 9DK001-50110 | J | 0 | 1/10W | Chip2125 | AB |
| R8703 | 9DK001-50185 | J | 10k | 1/16W | Chip1608 | AA |
| R8704 | 9DK001-50165 | J | 100 | 1/16W | Chip1608 | AA |
| R8705 | 9DK001-50267 | J | 33 | 1/16W | Chip1608 | AD |
| R8706 | 9DK001-50267 | J | 33 | 1/16W | Chip1608 | AD |
| R8707 | 9DK001-50267 | J | 33 | 1/16W | Chip1608 | AD |
| R8709 | 9DK001-50149 | J | 0 | 1/16W | Chip1608 | AB |

### SWITCH

| | | | | |
|---|---|---|---|---|
| S8001 | 9DK001-70012 | J | Switch SSSS812-B-2B | AL |

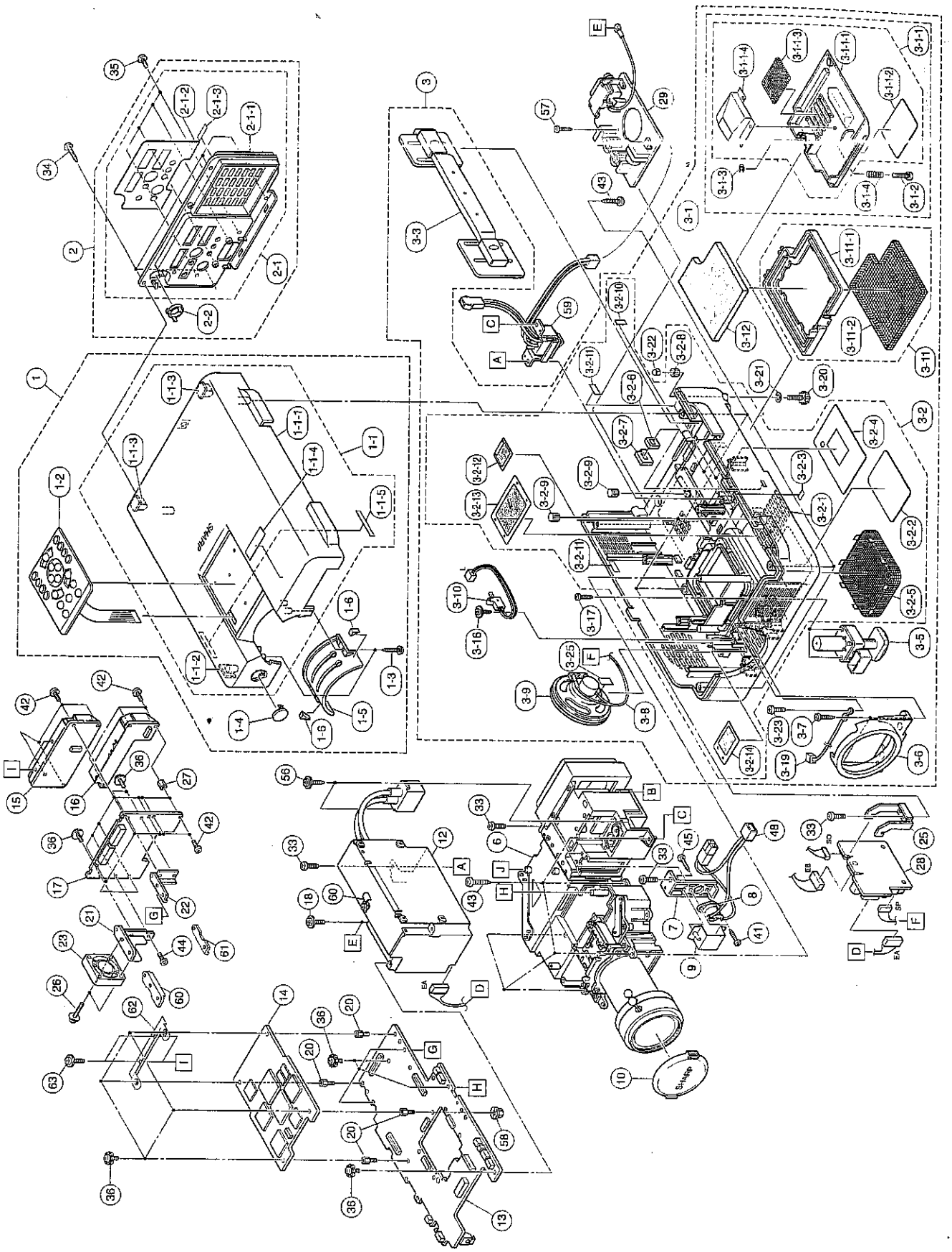
### MISCELLANEOUS PARTS

| | | | | |
|---|---|---|---|---|
| FB8004 | 9DK001-81056 | J | Chip Tewite Beads BLM11A102S | |
| P8404 | 9DK001-60038 | J | Connector, 60-pin | AR |
| P8405 | 9DK001-60038 | J | Connector, 60-pin | AR |
| P8502 | 9DK001-60038 | J | Connector, 60-pin | AR |
| TP8004 | 9DK001-84014 | J | Lug, Test Point | AE |
| TP8005 | 9DK001-84014 | J | Lug, Test Point | AE |
| TP8006 | 9DK001-84014 | J | Lug, Test Point | AE |
| TP8007 | 9DK001-84014 | J | Lug, Test Point | AE |
| TP8022 | 9DK001-84014 | J | Lug, Test Point | AE |
| TP8023 | 9DK001-84014 | J | Lug, Test Point | AE |

# CABINET AND MECHANICAL PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| 1 | *Not Available* | – | Top Cabinet Ass'y | — |
| 1-1 | DBDYT1185CEK2 | J | Top Cabinet Ass'y (XG-C40XU) | AX |
| 1-1 | DBDYT1185CEK4 | J | Top Cabinet Ass'y (XG-C40XE) | AX |
| 1-1-1 | *Not Available* | – | Top Cabinet | — |
| 1-1-2 | *Not Available* | – | Holder | — |
| 1-1-3 | *Not Available* | – | Holder, x2 | — |
| 1-1-4 | *Not Available* | – | Lens Caution Label | — |
| 1-1-5 | *Not Available* | – | Tefron Tape | — |
| 1-2 | QSW-Z0526CEZZ | J | Operation Key Unit | BA |
| 1-3 | XEBSD30P12000 | J | Screw, x2 | AA |
| 1-4 | GCOVA1771CESA | J | R/C Cover, Front | AE |
| 1-5 | GCOVA1776CEKA | J | Lens DEC Cover | AP |
| 1-6 | PMLT-0348CEZZ | J | Molt, x2 | AE |
| 2 | *Not Available* | – | Rear Cabinet Ass'y | — |
| 2-1 | DBDYR1092CEK2 | J | Rear Cabinet Ass'y (XG-C40XU) | AS |
| 2-1 | DBDYR1092CEK4 | J | Rear Cabinet Ass'y (XG-C40XE) | AS |
| 2-1-1 | *Not Available* | – | Rear Cabinet | — |
| 2-1-2 | *Not Available* | – | Terminal Indication Sheet | — |
| 2-1-3 | *Not Available* | – | Hot Cavtion Label | — |
| 2-2 | GCOVA1779CESA | J | R/C Cover, Rear | AE |
| 3 | *Not Available* | – | Bottom Cabinet Ass'y | — |
| 3-1 | *Not Available* | – | Lamp Cage Cover Ass'y | — |
| 3-1-1 | DDORU1017CEK3 | J | Lamp Cage Cover Ass'y | AU |
| 3-1-1-1 | *Not Available* | – | Lamp Cage Cover | — |
| 3-1-1-2 | *Not Available* | – | Caution Label | — |
| 3-1-1-3 | *Not Available* | – | Panching | — |
| 3-1-1-4 | *Not Available* | – | Duct | — |
| 3-1-2 | LX-BZ1009CEFN | J | Screw | AE |
| 3-1-3 | XRESJ30-06000 | J | E-Ring | AA |
| 3-1-4 | MSPRC0202CEFW | J | Spring | AB |
| 3-2 | DBDYU1140CEK1 | J | Bottom Cabinet Ass'y (XG-C40XU) | BB |
| 3-2 | DBDYU1141CEK1 | J | Bottom Cabinet Ass'y (XG-C40XE) | BB |
| 3-2-1 | *Not Available* | – | Bottom Cabinet | — |
| 3-2-2 | *Not Available* | – | Model Label | — |
| 3-2-3 | *Not Available* | – | Interlock Cavtion Lavel | — |
| 3-2-4 | *Not Available* | – | FCC Index | — |
| 3-2-5 | *Not Available* | – | Punching Plate | — |
| 3-2-6 | *Not Available* | – | Angle | — |
| 3-2-7 | *Not Available* | – | Shielding Holder | — |
| 3-2-8 | *Not Available* | – | Nut | — |
| 3-2-9 | *Not Available* | – | Nut, x4 | — |
| 3-2-10 | *Not Available* | – | Handle Spacer, x2 | — |
| 3-2-11 | *Not Available* | – | Tefron Tape, x4 | — |
| 3-2-12 | *Not Available* | – | PBS Inhaust Filter | — |
| 3-2-13 | *Not Available* | – | Ballast Bottom Filter | — |
| 3-2-14 | *Not Available* | – | Lens Bottom Filter | — |
| 3-3 | JHNDA1038CESB | J | Handle | AV |
| 3-5 | GLEGP9119CEKB | J | Front Adjuster | AU |
| 3-6 | GCOVA1836CEKA | J | Front Cover | AK |
| 3-7 | XEBSD30P12000 | J | Screw, x2 | AA |
| 3-8 | QCNW-5062CEZZ | J | Speaker Lead Wire | AE |
| 3-9 | VSP0082PBR34A | J | Speaker | AP |
| 3-10 | QCNW-5761CEZZ | J | Leaf Switch | AG |
| 3-11 | DCOVA1775CEK4 | J | Intake Cover Ass'y | AQ |
| 3-11-1 | *Not Available* | – | Intake Cover | — |
| 3-11-2 | *Not Available* | – | Intake Cover Punching | — |
| 3-12 | PFILD0075CEZZ | J | Intake Air Filter | AD |
| 3-16 | LX-HZ3066CEFD | J | Screw | AB |
| 3-17 | XEBSD26P14000 | J | Screw, x2 | AA |
| 3-19 | RH-HZ0051CEZZ | J | Temp. Sensor | AN |
| 3-20 | GLEGP1031CESA | J | Back Adjuster | AG |
| 3-21 | PSPAH0648CE00 | J | Adjuster Spacer | AB |
| 3-22 | LX-NZ3095CEFD | J | M5 Nut | AA |
| 3-23 | XEBSD30P10000 | J | Screw, x1 | AA |
| 3-25 | PSPAT0013CEZZ | J | Teflon Tape | AC |
| 6 | *Refer to Optics Mechanism Parts* | | | |
| 7 | LHLDZ2093CEKZ | J | Bimetal Holder | AK |
| 8 | RBiM-0001CEZZ | J | Bimetal (XG-C40XU) | AN |
| 8 | RBiM-0104CEZZ | J | Bimetal (XG-C40XE) | AN |
| 9 | PCOVW9007CEKZ | J | Bimetal Cover | AF |
| 10 | GCOVH1307CESB | J | Lens Cap | AV |
| 12 | *Refer to Power/Ballast Unit Parts* | | | |
| 13 | *Not Available* | – | Output Unit | — |
| 14 | *Not Available* | – | PC I/F Unit | — |
| 15 | *Not Available* | – | PC Terminal Unit | — |
| 16 | *Not Available* | – | Video Unit | — |
| 17 | *Not Available* | – | Signal Unit | — |
| 18 | XBPSD40P08JS0 | J | Screw, x1 | AA |
| 20 | NSFTZ0144CEFW | J | Spacer, x4 | AD |
| 21 | LANGT3295CEFW | J | Angle (L) | AK |
| 22 | LANGT3265CEFW | J | Angle (R) | AH |
| 23 | NFANR0104CE00 | J | Fan | AW |
| 25 | LANGQ5709CEFW | J | Angle | AE |
| 26 | XBSSD26P14000 | J | Screw, x2 | AA |
| 27 | NSFTZ0140CEFW | J | Shaft, x7 | AC |
| 28 | *Not Available* | – | Sound Out/Regulator Unit | — |
| 29 | *Not Available* | – | Inlet Unit | — |
| 33 | XEBSD30P10000 | J | Screw, x4 | AA |
| 34 | XTBSF30P12000 | J | Screw, x4 | AA |
| 35 | XBPSF30P10000 | J | Screw, x4 | AA |
| 36 | XBPSD30P06R00 | J | Screw, x12 | AB |
| 41 | XEBSD30P06000 | J | Screw, x2 | AA |
| 42 | XBPSD26P04000 | J | Screw, x13 | AA |
| 43 | XTASD30P16000 | J | Screw, x9 | AA |
| 44 | XBBSF26P05000 | J | Screw, x1 | AA |
| 45 | XEBSF30P08000 | J | Screw, x1 | AA |
| 48 | QCNW-4929CEZZ | J | Bimetal Wire | AG |
| 56 | LX-HZ3106CEFD | J | Screw, x2 | AB |
| 57 | XEBSD30P08000 | J | Screw | AA |
| 58 | LX-NZ3166CEFD | J | Nut | AA |
| 59 | QCNW-5224CEZZ | J | AC Power Switch | AW |
| 60 | PSPAF0032CEFW | J | Spacer(L) | AF |
| 61 | PSPAF0033CEFW | J | Spacer(R) | AF |
| 62 | QEARPA002WJFW | J | PC Earth | AE |
| 63 | XBPSD26P04000 | J | Screw,x2 | AA |

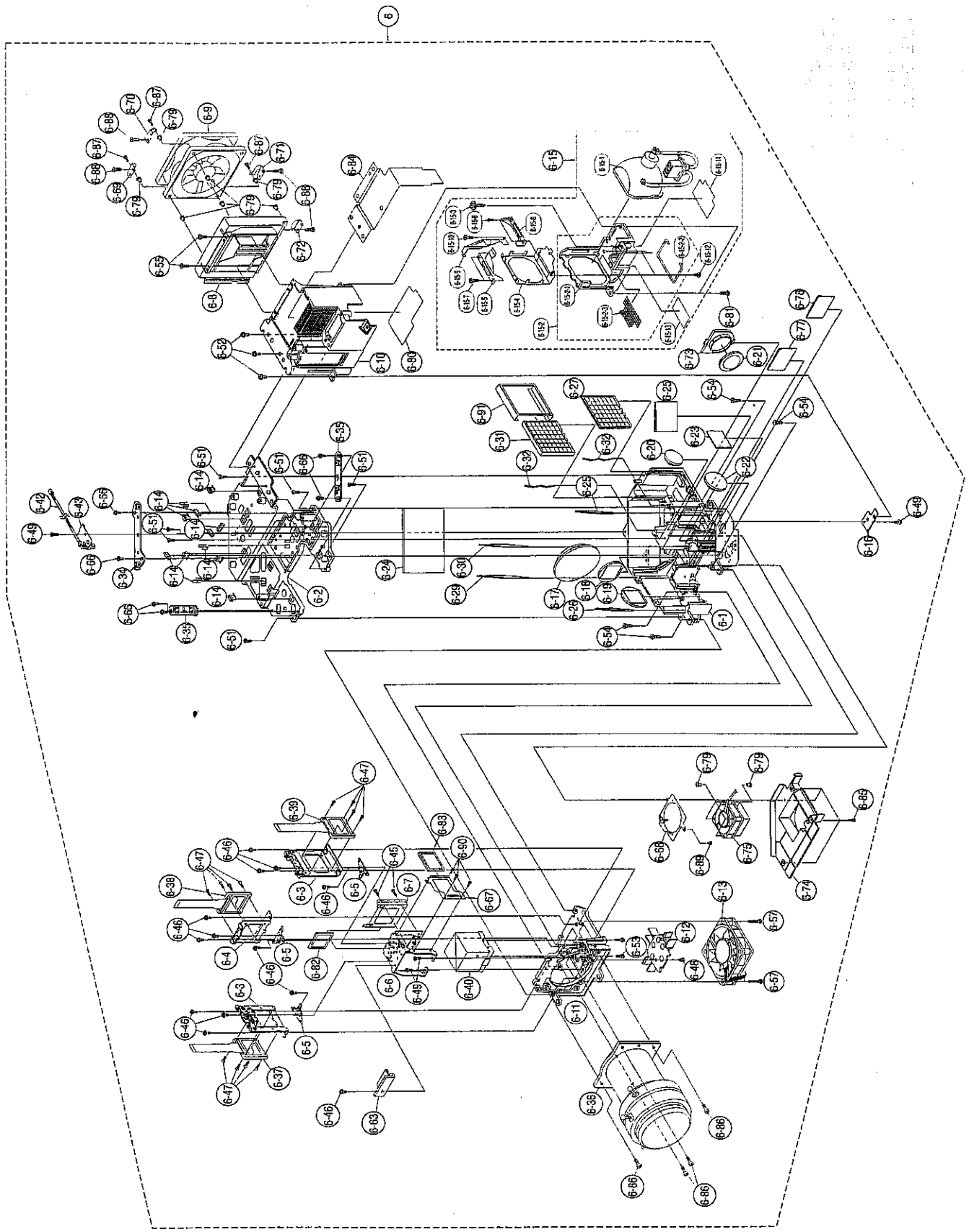
# CABINET AND MECHANICAL PARTS/
# GEHÄUSE UND MECHANISCHE BAUTEILE



# OPTICS MECHANISM PARTS

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|
| 6 | CCHSK0075CE71 | J | Optics Mecha. Ass'y | FT |
| 6-1 | LCHSK0094CEFW | J | Optics Mecha. Base | BM |
| 6-2 | LCHSK0075CEFW | J | Optics Mecha. Cover | BL |
| 6-3 | CANGK0675CE02 | J | R/B Convergence Unit, x2 | AY |
| 6-4 | LANGK0747CEFW | J | G Adjusting Plate | AG |
| 6-5 | LANGK0677CEFW | J | Slide Plate, x3 | AD |
| 6-6 | LANGG1192CEFW | J | Guide Plate | AR |
| 6-7 | PSLDP3075CEFW | J | Light Shielding Plate (LCD Module Unit, Green) | AH |
| 6-8 | PDUC-0121CEKZ | J | Duct ,Side | AR |
| 6-9 | NFANR0109CE00 | J | Cooling Fan(Exhaust) | BA |
| 6-10 | CDUC-0122CE01 | J | Duct ,Top | AX |
| 6-11 | LHLDZ3067CEFW | J | Holder, for Prism | BC |
| 6-12 | PGiDH0039CEKZ | J | Flap | AF |
| 6-13 | NFANR0122CE00 | J | Cooling Fan(Intake) | AX |
| 6-14 | MSPRP1198CEFW | J | Mirror Fitting Spring, x27 | AD |
| ⚠ 6-15 | BQC-XGC40XU/1 | J | Lamp/Cage Module Unit | CQ |
| ⚠ 6-15-1 | RLMPF0075CEZZ | J | Lamp/Mirror Ass'y | CL |
| 6-15-2 | CCASZ0108CE01 | J | Lamp Case Ass'y | AW |
| 6-15-2-1 | PCASZ0108CEKZ | J | Lamp Case | AP |
| 6-15-2-2 | LHLDZ3058CEFW | J | Handle | AE |
| 6-15-2-3 | PCOVZ0103CEFW | J | Lamp Case Punting Ney | AG |
| 6-15-3 | LX-HZ3105CEFD | J | Screw | AB |
| 6-15-4 | LANGK0750CEFW | J | Lamp Angle | AK |
| 6-15-5 | MSPRP0215CEFW | J | Spring (A) | AF |
| 6-15-6 | MSPRP0218CEFW | J | Spring (B) | AE |
| 6-15-7 | XBSSD30P06000 | J | Screw, x2 (A) | AA |
| 6-15-8 | XBPSD20P04000 | J | Screw, x2 (B) | AA |
| 6-15-9 | PSLDP3062CEFW | J | Lamp Shield | AG |
| 6-15-10 | XEPSD30P06000 | J | Screw | AA |
| 6-15-11 | TLABZ0795CEZZ | J | Label | AC |
| 6-15-12 | XBPSD30P08JS0 | J | Screw, x3 | AA |
| 6-15-13 | TLABZ0758CEZZ | J | Label | AD |
| 6-16 | LANGK0680CEFW | J | Duct Holding Plate | AE |
| 6-17 | PLNS-0148CEZZ | J | CL1 | BB |
| 6-18 | PLNS-0242CEZZ | J | CL3 (for Green) | BC |
| 6-19 | PLNS-0241CEZZ | J | CL2 (for Red) | BC |
| 6-20 | PLNS-0151CEZZ | J | RL1 (Incoming-Light) | AU |
| 6-21 | PLNS-0220CEZZ | J | RL2 | AY |
| 6-22 | PLNS-0153CEZZ | J | RL3 (Outgoing-Light) | AU |
| 6-23 | PFiLW0294CEZZ | J | Polarizer B | BG |
| 6-24 | PMiR-0216CEZZ | J | Mirror-M1 | BA |
| 6-25 | PMiR-0219CEZZ | J | Mirror-M4/M6 ,x2 | AS |
| 6-26 | PMiR-0271CEZZ | J | Mirror-M5 | AL |
| 6-27 | PLNS-0219CEZZ | J | Flyeye Lens1 | BP |
| 6-29 | PMiR-0266CEZZ | J | Mirror-M2 | BC |
| 6-30 | PMiR-0267CEZZ | J | Mirror-M3 | AZ |
| 6-31 | PLNS-0221CEZZ | J | Flyeye Lens2, PBS | CA |
| 6-32 | MSPRP1205CEFW | J | Flyeye Fitting Spring,x2 | AD |
| 6-34 | LHLDZ3059CEFW | J | M1 Adjust Lever Ass'y | AK |
| 6-35 | LHLDZ3060CEFW | J | M Adjust Lever Ass'y, x2 | AH |
| 6-36 | CLNS-0172CE01 | J | Projection Lens | CG |
| 6-37 | RLCDP0141CEZZ | J | LCD Module Unit, Red | CT |
| 6-38 | RLCDP0142CEZZ | J | LCD Module Unit, Green | CT |
| 6-39 | RLCDP0143CEZZ | J | LCD Module Unit, Blue | CT |
| 6-40 | PMiR-0265CEZZ | J | Cross Prism (with Base) | CB |
| 6-42 | RH-HZ0048CEZZ | J | Temp. Sensor | AN |
| 6-43 | LANGU9029CEFW | J | Angle, for Temp. Sensor | AF |
| 6-45 | XAPSF20P05000 | J | Screw M2-5, x2 | AA |
| 6-46 | LX-BZ3402CEZZ | J | Screw 2P-5, x13 | AB |
| 6-47 | XASSF26P06000 | J | Screw M2.6-6, x12 | AB |
| 6-48 | XBPSD26P04000 | J | Screw M2.6-4 | AA |
| 6-49 | LX-BZ3370CEFD | J | Screw 2.6P-6, x4 | AB |
| 6-51 | XBBSD26P08000 | J | Screw 2.6P-8, x6 | AA |
| 6-52 | XBPSD30P08JS0 | J | Screw M3-8, x3 | AA |
| 6-53 | XJPSD30P08000 | J | Screw M3-8 | AA |
| 6-54 | XBBSD30P08000 | J | Screw 3P-8, x4 | AA |
| 6-55 | XEBSD30P10000 | J | Screw M3-10, x2 | AA |
| 6-57 | XEBSD40P20000 | J | Screw M4-20, x2 | AA |
| 6-63 | LANGH0144CEFW | J | Light Shielding Plate | AE |
| 6-66 | XBPSD26P06JS0 | J | Screw 2.6P-6, x6 | AA |
| 6-67 | LANGK0755CEFW | J | Angle, for Emergent Pollarizer B | AK |
| 6-68 | LANGK0785CEFW | J | Fan Angle for PBS | AK |
| 6-69 | LANGK0751CEFW | J | Fan Angle A | AF |
| 6-70 | LANGK0752CEFW | J | Fan Angle B | AE |
| 6-71 | LANGK0753CEFW | J | Fan Angle C | AF |
| 6-72 | LANGK0756CEFW | J | Fan Angle D | AF |
| 6-73 | LHLDZ0112CEKZ | J | RL2-Holder | AF |
| 6-74 | LHLDZ0113CEKZ | J | Holder for PBS Fan | AL |
| 6-75 | NFANR0125CE00 | J | Cooling Fan (Intake for PBS) | AU |
| 6-77 | PFiLW0254CEZZ | J | UV Filter | BA |
| 6-78 | PFiLW0293CEZZ | J | UV Filter 0.8t | AY |
| 6-79 | PSPAZ0373CEZZ | J | Fan Bush, x15 | AC |
| 6-80 | PSLDH3073CEFW | J | Duct shielding plate | AE |
| 6-81 | XBBSD30P10000 | J | Screw, x2 | AA |
| 6-82 | PFiLW0297CEZZ | J | Emergent Polarizer G | BE |
| 6-83 | PFiLW0295CEZZ | J | Emergent Polarizer B | BH |
| 6-84 | QEARP0114CEFW | J | Heat Shielding Plate | AH |
| 6-85 | XBBSD26P06000 | J | Screw M2.6-6, x3 | AA |
| 6-86 | XBPSD30P10JS0 | J | Screw M3-10, x4 | AA |
| 6-87 | XBPSD20P04000 | J | Screw M2-4, x3 | AA |
| 6-88 | XEPSD26P08000 | J | Screw M2.6-8, x4 | AA |
| 6-89 | XEPSD30P06000 | J | Screw M3-6, x1 | AA |
| 6-90 | XiPSF20P02000 | J | Screw M2-2, x3 | AA |
| 6-91 | PSLDP3078CEFW | J | Flyeye Lens Aperture | AG |

# OPTICS MECHANISM PARTS/
# TEILE FÜR OPTIKMECHANISMUS



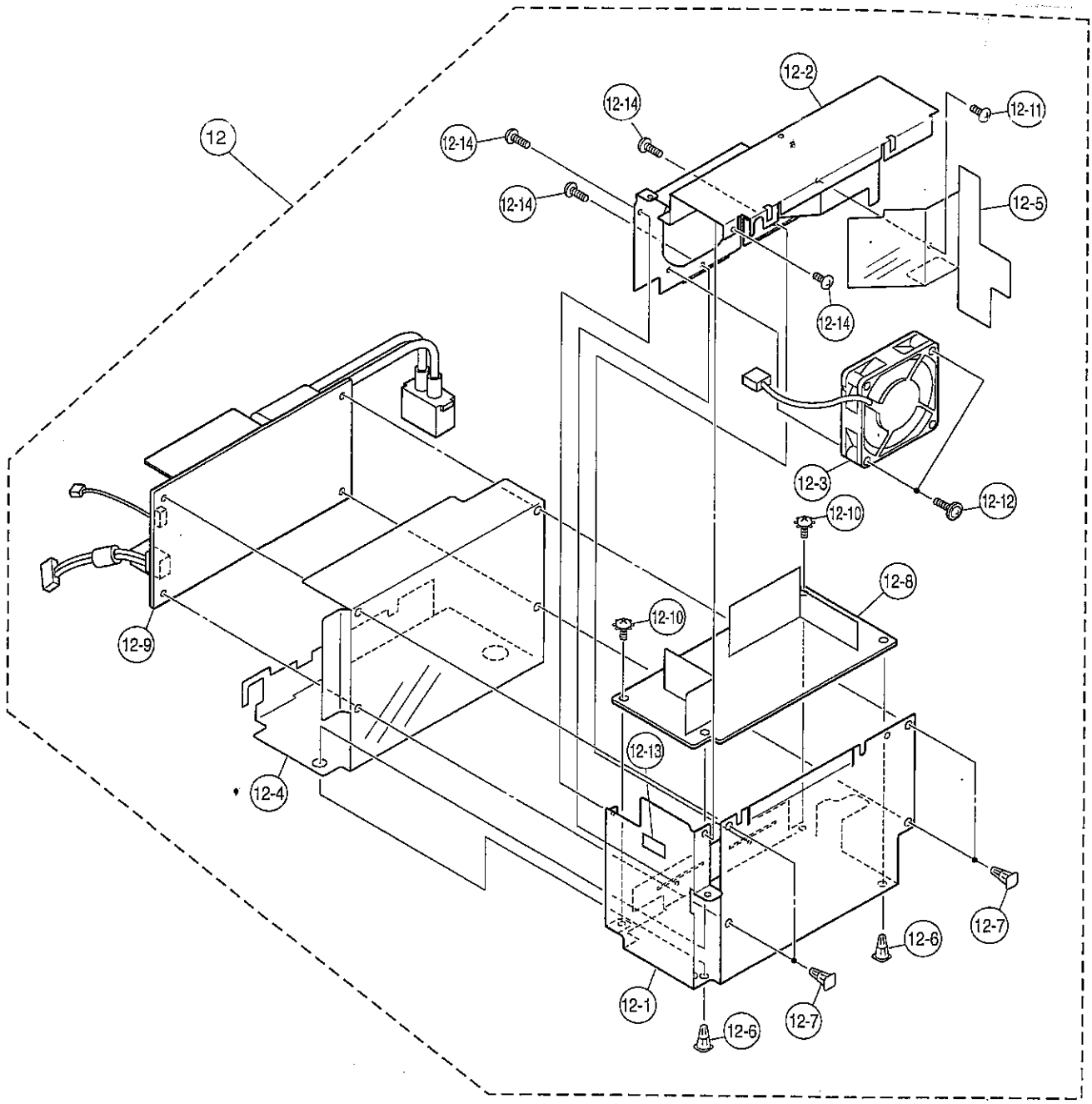
| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

# POWER/BALLAST UNIT PARTS

| 12 | *Not Available* | – | Power/Ballast Unit Ass'y | — |
|---|---|---|---|---|
| 12-1 | 9FJ0N00002020 | J | Case Base | AX |
| 12-2 | 9FJ0N00002030 | J | Cover | AW |
| 12-3 | 9FJ0M41001170 | J | Fan | AZ |
| 12-4 | 9FJ0A11901620 | J | Insulating Sheet | AL |
| 12-5 | 9FJ0A11901610 | J | Insulating Sheet | |
| 12-6 | 9FJ0G20002960 | J | Spacer | AD |
| 12-7 | 9FJ0G20002690 | J | Spacer | AD |
| 12-8 | RDENC0334CEZZ | – | Power Unit | — |
| 12-9 | RDENC0333CEZZ | J | Ballast Unit (The ballast unit is supplied only as an assembly.) | CC |
| 12-10 | 9FJ0S89000080 | J | Screw | AC |
| 12-11 | 9FJ0S89000020 | J | Screw | AB |
| 12-12 | 9FJ0S08004200 | J | Screw | AC |
| 12-13 | 9FJ0K00001220 | J | Serial Number Label | AU |
| 12-14 | XBPSD30P04000 | J | Screw | AA |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

# POWER/BALLAST UNIT PARTS/
# TEILE FÜR NETZ-/BALLASTEINHEIT



| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

## SUPPLIED ACCESSORIES

| | | | | |
|---|---|---|---|---|
| | PFiLD0076CEZZ | J | Extra Air Filter | AE |
| ⚠ | QACCU5013CEZZ | J | AC Cord (XG-C40XU) | AX |
| ⚠ | RCORF0083CEZZ | J | Core(XG-C40XU) | AL |
| ⚠ | QACCB5024CENA | J | AC Cord (XG-C40XE) | AZ |
| ⚠ | QACCV4002CEZZ | J | AC Cord (XG-C40XE) | AZ |
| | QCNW-4870CEZZ | J | Computer Audio Cable | AQ |
| | QCNW-5288CEZZ | J | DIN D-Sub RS-232C Cable | AM |
| | QCNWG0007CEPZ | J | USB Mouse Control Cable | AL |
| | QCNWG0002CEZZ | J | Computer RGB Cable | AW |
| | RRMCG1579CESA | J | Wireless R/C Unit (XG-C40XU) | BR |
| | RRMCG1584CESA | J | Wireless R/C Unit (XG-C40XE) | BR |
| | RUNTK0673CEZZ | J | Remote Mouse Receiver | BM |
| | UDSKA0053CEN1 | J | CD-ROM (XG-C40XU) | AQ |
| | UDSKA0057CEN1 | J | CD-ROM (XG-C40XE) | AQ |
| | TINS-7482CEZZ | J | Operation Manual (XG-C40XU) | AS |
| | TINS-7533CEZZ | J | Operation Manual (XG-C40XE) | AY |
| | TINS-7483CEZZ | J | Quick Reference (XG-C40XU) | AG |
| | TINS-7534CEZZ | J | Quick Reference (XG-C40XE) | AG |
| | TINS-7535CEZZ | J | Quick Reference (XG-C40XE) | AG |
| | TINS-7536CEZZ | J | Quick Reference (XG-C40XE) | AF |
| | TINS-7538CEZZ | J | SAPS Operation Manual (XG-C40XU) | AM |
| | TINS-7537CEZZ | J | SAPS Operation Manual (XG-C40XE) | AX |
| | GCOVH1307CESB | J | Lens Cap | AV |

### ACCESSORIES (NOT REPLACEMENT ITEM)

| | | | |
|---|---|---|---|
| TCAUZ3036CEZZ | – | Software Caution | — |
| – | – | Two AA Size Batteries | — |

| Ref. No. | Part No. | ★ | Description | Code |
|---|---|---|---|---|

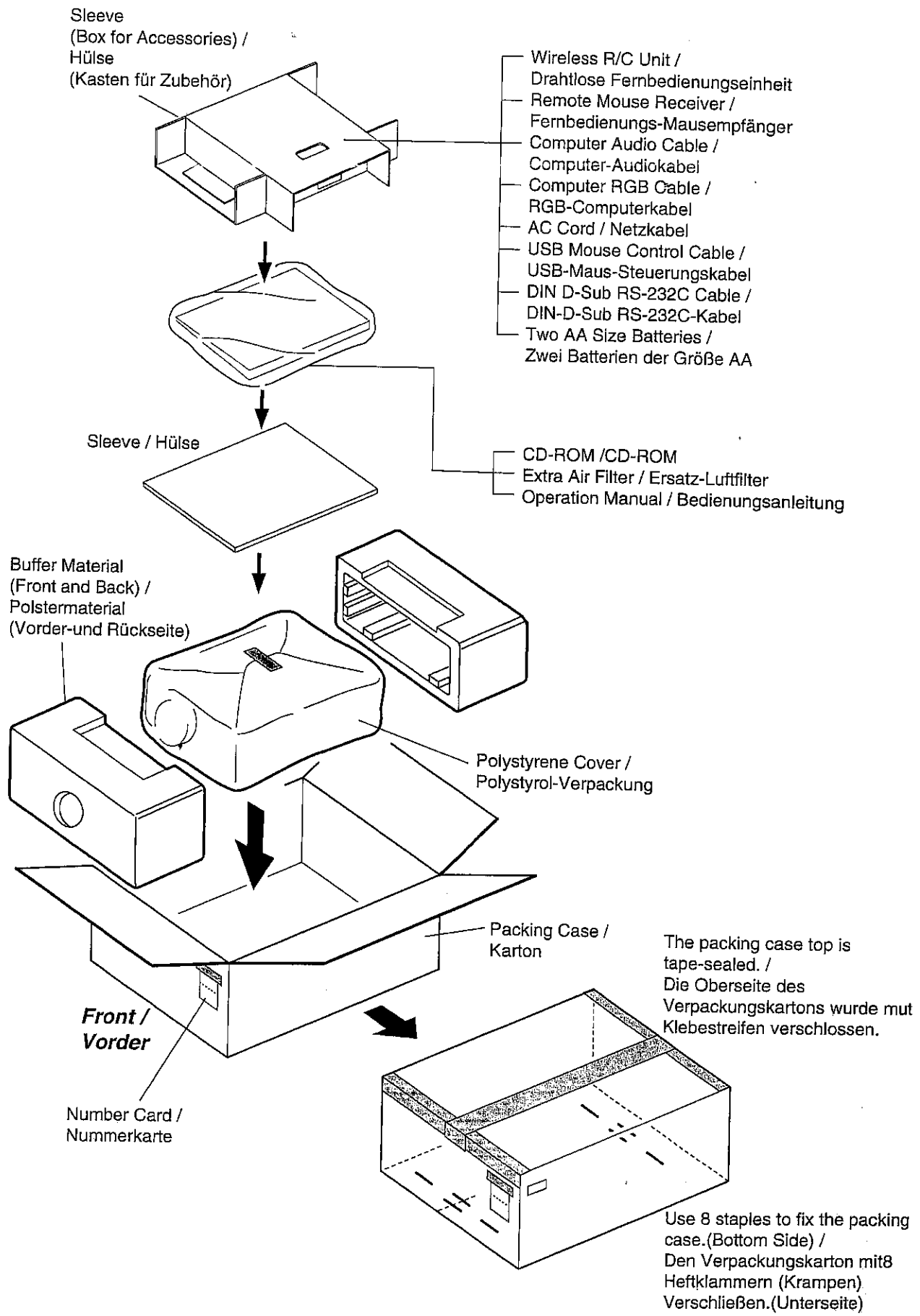
## PACKING PARTS
### (NOT REPLACEMENT ITEM)

| | | | |
|---|---|---|---|
| SPAKC5598CEZZ | – | Packing Case (XG-C40XU) | — |
| SPAKC5613CEZZ | – | Packing Case (XG-C40XE) | — |
| SPAKP0805CEZZ | – | Polystyrene Cover | — |
| SPAKX2918CEZZ | – | Buffer Material | — |
| SPAKF0467CEZZ | – | Sleeve(Box for Accessories) | — |
| TLABK0001TAZZ | – | Number Card | — |

## SERVICE JIGS
### (Use for servicing)

| | | | |
|---|---|---|---|
| 9DASPN-XGNV1U | J | Spanna, 3mm (Off-set Cam Adjustment) | BG |
| 9EQDRiVER-NV1B | J | Screwdriver, (–) (Focus Adjustment) | BL |
| 9EQLNC-XGNV1U or 9EQLNC-XGNV4U | J | Hexagon Wrench, 2mm (Convergence Adjustment) | BA |
| QCNW-5058CEZZ | J | Extension Cable 28-pin Signal(P1501)-Output(SC1501) Signal(P1502)-Output(SC1502) | CB |
| QCNW-4767CEZZ | J | Extension Cable 30-pin Signal (VS)-Video (VS) Signal (TN)-PC Terminal (TN) | BT |
| QCNW-5057CEZZ | J | Extension Cable 60-pin Output (TC1)-PC I/F (TC1) Output (TC2)-PC I/F (TC2) Output (TC3)-PC I/F (TC3) | CD |
| QCNW-5688CEZZ | J | Extension Cable 30-pin LCD Panel-Output | BK |

# PACKING OF THE SET / VERPACKEN DES GERÄTS



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